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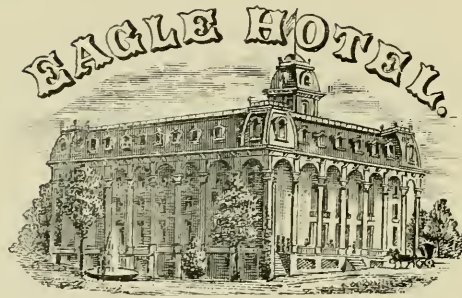
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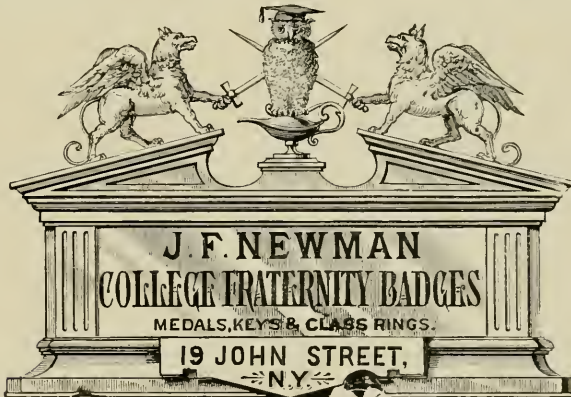
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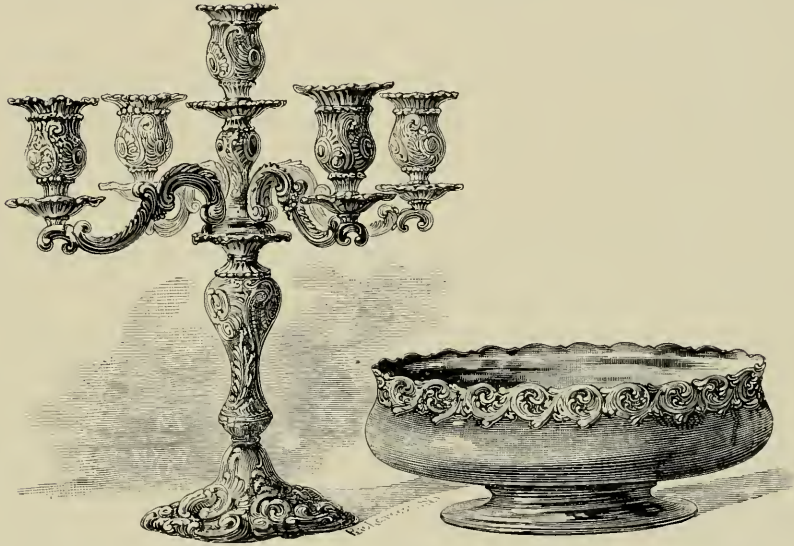
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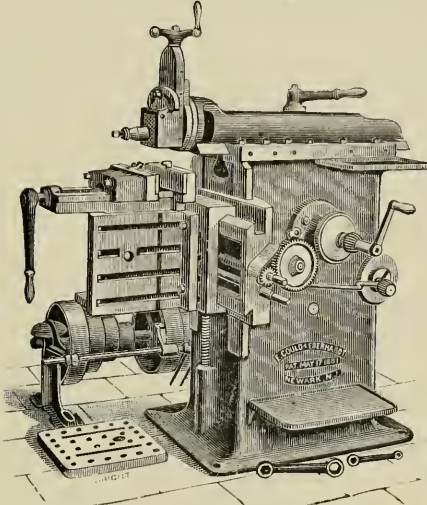
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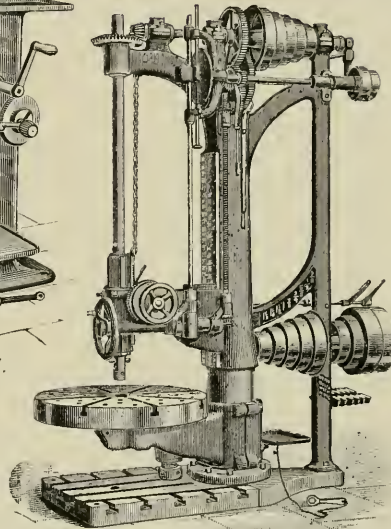
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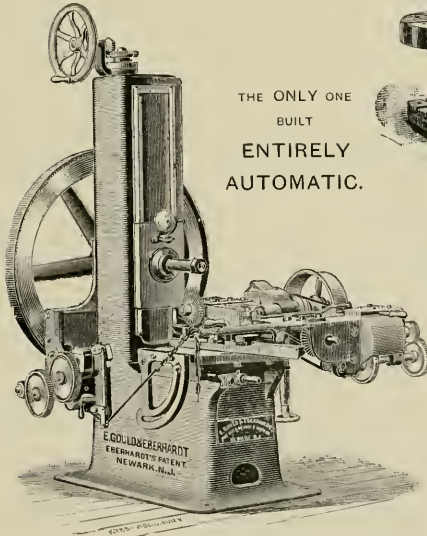
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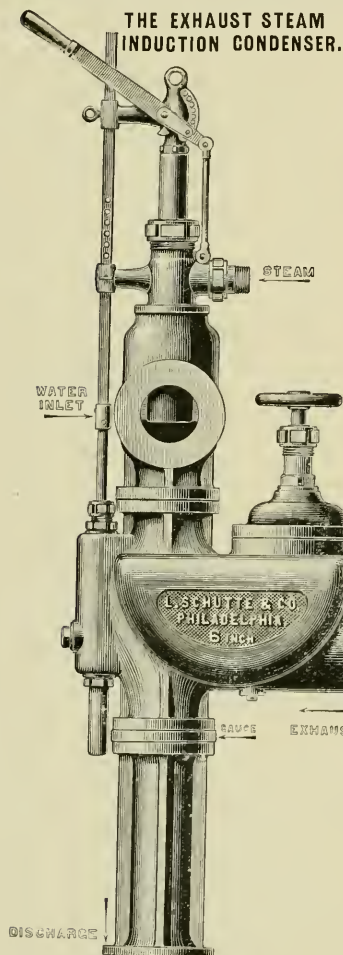
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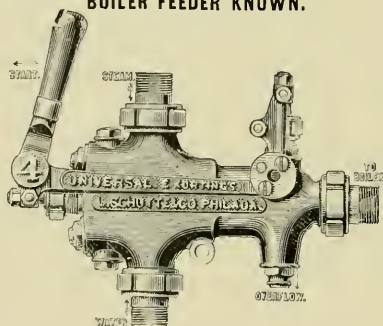
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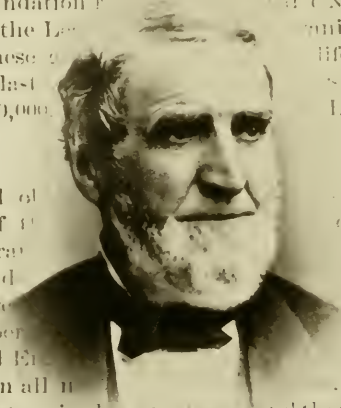
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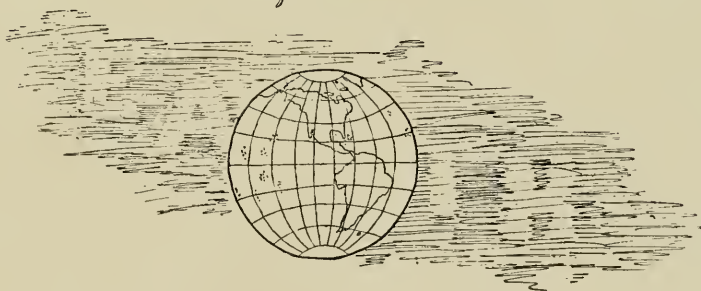
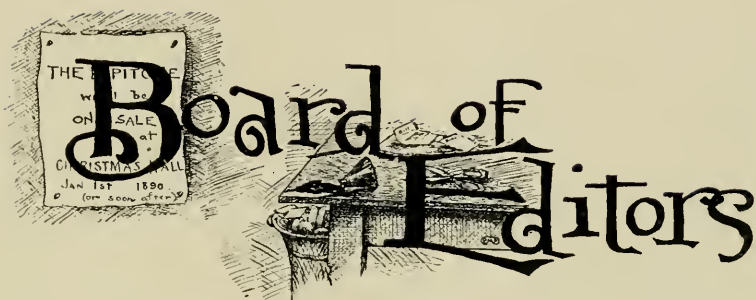


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Preface.

IN presenting the fifteenth volume of THE EPITOME to you, kind reader, we do not propose to weary you with an outline of our aims and purposes. We confidently rely upon the contents of the book to fulfill that duty. We would like to ask indulgence for those errors which have undoubtedly crept in, despite our constant vigilance in guarding against them; and we point out improvements in all our departments as compensation for them.

The book has suffered through the departure from Lehigh of one of our number, while the volume was yet in embryo; but it has, on the other hand, been benefited by contributions from many Lehigh men, whose aid in beautifying our pages, we take this means of acknowledging.

Hoping that the '91 EPITOME has fully reached the standard of former years; that it will in turn reflect credit upon the Alma Mater which has made its existence possible; and that it is worthy of the pride of the Class of '91, we place it at your full disposal.

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Calendar.

1889.	1889-90.	
Sept. 7, 9, 10,	Saturday, Monday and Tuesday,	Examinations for Admission.
Sept. 11,	Wednesday,	First Term begins.
Oct. 10,	Thursday,	Founder's Day.
Nov. 28,	Thursday,	Thanksgiving Day.
Dec. 18,	Wednesday,	First Term ends.
1890.		
Jan. 7, 8,	Tuesday and Wednesday,	Examinations for Admission to Second Term.
Jan. 8,	Wednesday,	Second Term begins.
Jan. 12,	Saturday,	Junior Prize Orations due.
Feb. 22,	Saturday,	Washington's Birthday.
Feb. 19,	Wednesday,	Ash Wednesday.
April 3,	Thursday,	Easter Holidays begin.
April 8,	Tuesday,	Easter Holidays end at 8½ a.m.
May 26,	Monday,	University Day Orations due.
May 28,	Wednesday,	Theses of Seniors due.
May 28,	Wednesday,	Senior Examinations begin.
June 4,	Wednesday,	Annual Examinations begin.
June 7,	Saturday,	Senior Examinations end.
June 11, 12, 13,	Wednesday, Thursday, Friday,	Examinations for Admission.
June 15,	Sunday,	Baccalaureate Sermon.
June 17,	Tuesday,	Class Day.
June 18,	Wednesday,	Alumni Day.
June 19,	Thursday,	University Day.
1890.	1890-91.	
Sept. 6, 8, 9,	Saturday, Monday, Tuesday,	Examinations for Admission.
Sept. 10,	Wednesday,	First Term begins.
Oct. 9,	Thursday,	Founder's Day.
Nov. 27,	Thursday,	Thanksgiving Day.
Dec. 17,	Wednesday,	First Term ends.
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Jan. 7,	Wednesday,	Second Term begins.
June 18,	Thursday,	University Day.

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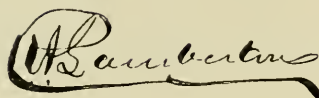
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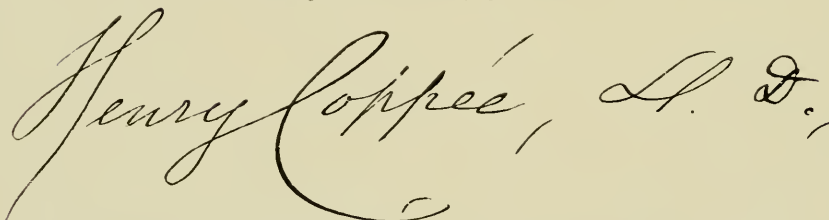
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ERNEST A. CONGDON, Ph.B.,
Ph.B., Columbia College, 1887.

Fountain Hill House.

Instructor in Civil Engineering,

GEORGE W. SHERWOOD, C.E.,
C.E., B.A., Union College, 1883.

Eagle Hotel.

Instructor in Drawing.

RALPH M. WILCOX, PH.B.,
Ph.B., Yale Sheffield Scientific School, 1888.
235 S. New Street.

Instructor in Physics,

RICHARD O. HEINRICH, C.E.,
C.E., Cassell Polytechnicum, 1882.
Advanced Electricity, Lehigh University, 1888.
Chestnut St. and Packer Ave.

Instructor in Mining and Geology,

HARRY H. STOEK, E.M.,
B.S., Lehigh University, 1887. E.M., Lehigh University, 1888.
446 Seneca Street.



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THE REV. J. W. KAYE, Fountain Hill House.

Organist,

J. FRED. WOLLE, 226 Monocacy Ave.

Gymnasium.

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Assistant,

CHARLES F. SEELEY, Eagle Hotel.

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FOUNDED IN 1865, BY HON. ASA PACKER.
Incorporated in 1866, under the laws of Pennsylvania.

Motto:

HOMO MINISTER ET INTERPRES NATURE.

College Colors:

SEAL BROWN AND WHITE.

College Cheer:

HOO, RAH, RAY!
HOO, RAH, RAY!
RAY! RAY! RAY!
LEHIGH!

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SAMUEL ERWIN BERGER, B.A.,	M.A.,	Richland Centre.
ALBERT G. BRODHEAD, B.A., (Harvard.)	C.E.,	Wilkes Barre.
WILLIAM HENRY DEAN, A.C., E.M.,	M.S.,	Wilkes Barre.
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JOHN WEBSTER DOUGHERTY,	E.M.,	Steelton.
GEORGE FRANCIS DUCK, E.M., $\Psi \Upsilon$	PH.D.,	Rapid City, Dak.
HARVEY SHEAFE FISHER, B.A., $\Psi \Upsilon$	M.A.,	Pottsville.
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SYLVANUS ELMER LAMBERT, B.A.,	M.A.,	Philadelphia.
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WILSON FRANKLIN MORE, B.A.,	M.A.,	Catasauqua.
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Dreka, Philo

The Senior Class.

Motto:
"No Tentacles and Perfice"

∴'90∴

Class Colors:
Crimson and Steel Gray.

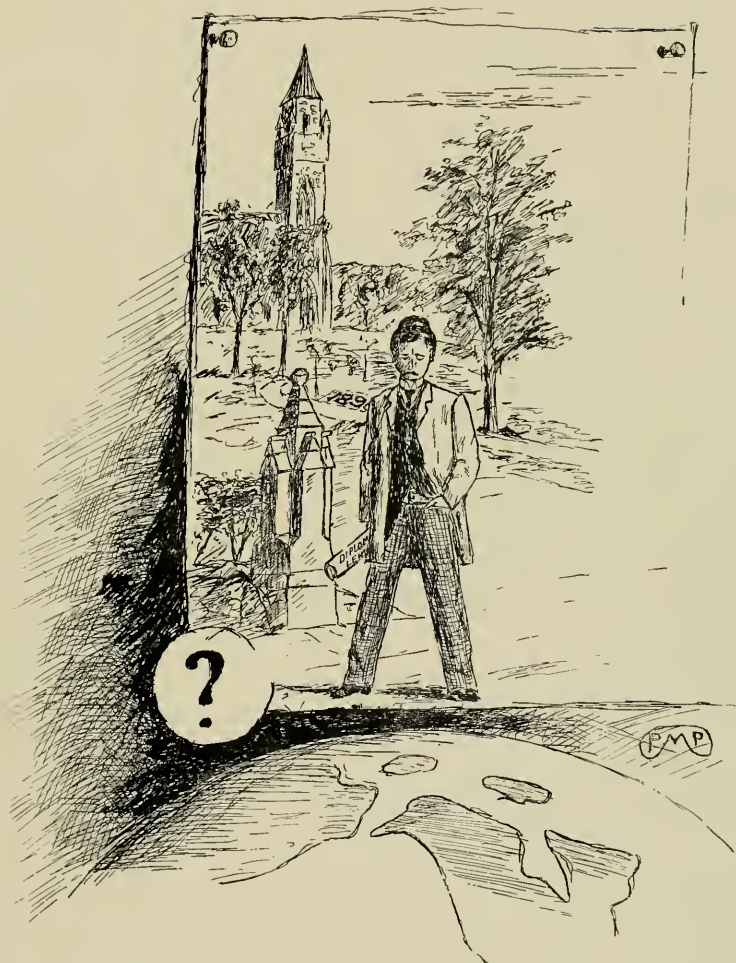
Class Cheer:
RAH, HE, HI!
RAH, HE, HI!
N-I-N—E-T-Y.
LEHIGH!

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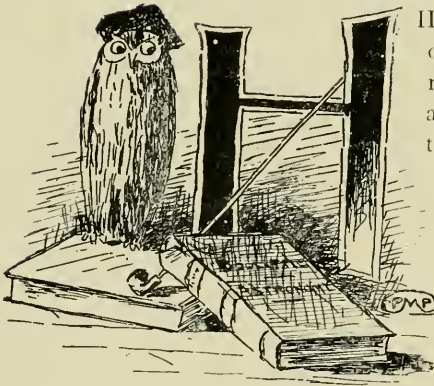
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Senior History.

*"But of all truths which she has told, the most
True is that which she is about to tell." Byron.*

*"These words no Shakspeare wrote,
No Byron penned these lines." Anon.*



HIDDEN deep in the inner recesses of historical India, surrounded by all the beauties of a most luxuriant tropical vegetation, alone, completely isolated from any of the habitations of man, far removed from any civilization, stands the most beautiful and perhaps one of the oldest, (certainly one of the most inspiring) structures of which modern archæologists have

any knowledge. It is the Taj—that magnificent mausoleum, which was the pride of the ancient and is the wonder of the present cycle. And as it rears its lofty head of spotless marble, cold and sinister, from out of that impenetrable forest, and stands, impressive and grand, sharply outlined against the sky, living on and on and still on through countless ages, defying alike the ravages of time and man, one cannot but feel that it needs no eulogy to sing its praise, no pen to chronicle its history.

And thus it is with the historian of the present Senior Class as he looks backward over the preceding four years of college life and sees the progress and development which have been made, not only mentally, but physically and morally, he feels that anything emanating from his pen could not do justice to the Class whose history stands preëminent, a monument commanding alike the admiration of the world and the respect of its Alma Mater; whose history will live on indefinitely from the

precedents it has established and the records which it has made, until at last it dissolves into chaos with the rest of matter.

When first we entered the classic halls of Packer, our minds surcharged with visions of fame and knowledge, we little realized with what trials and vicissitudes our life would be beset. College life then seemed to us one long dream of enjoyment, only occasionally broken by vague and indefinite warnings, seldom heard, never heeded; a huge Bacchanalian feast, presided over by that most princely and seductive host, Pleasure, in which the least prominent figures were Work and Energy. Alas! how have the mighty fallen. Where are those entrancing dreams which characterized our infantile Freshmen life? Gone, all gone, dissipated as is the dew under a morning sun; completely eliminated from our life by Reason and Practicalness, which come hand in hand with maturer years,—mature both in age and knowledge,—leaving nothing behind but an empty reminiscence. Where are those friends who sat with us at the festal board and made merry at the feast of Bacchus? The majority are with us yet; but some, we regret to say, have gone to pay the debt of their heedlessness.

But all this is mere sophistry and apart from the subject in hand. And yet, after all, what is there to tell? The more important events of our sojourn here have been fully enlarged upon by preceding historians. Our Class suppers—what pleasant things to think of in after life—those admirable institutions, as perfect in their simplicity as they are simple in their perfection, which bind a Class together more closely than any other event in its history, will forever remain clear and bright in our memory, a tribute to the spirit of good nature which predominates in and characterizes the Class of '90. They need not, therefore, be recalled.

The incidents connected with the photographing of our Class upon various occasions—that fund upon which class historians draw so largely—are still fresh in the memory of the participants. Of our early canerushes and impromptu hazing expeditions, little need be said: the story has been repeatedly told and is well known.

Nor have we been without achievements in the athletic world. We have made records of which we are proud, and justly too, not only from the mere fact that we held the records, but because our athletes have

broken those which a long succession of preceding classes could not even approach. Our records in the standing high jump, mile walk, fence vault, pole vault, throwing the hammer, and two mile bicycle race, all bear testimony to the fact.

But all this sinks into insignificance in comparison with the mighty strides which have been made into the field of knowledge. It can be said without exaggeration or egotism, that no other class has left, nor will leave, such a brilliant record behind them. Especially is this the case in the mathematics of the Sophomore and Junior years. Such results could have been accomplished only by a sincere devotion to study and an unswerving love of knowledge.

" 'Tis strange, but true ; for truth is always strange ;
Stranger than fiction ; if it could be told."

And now as we stand, with sedate and dignified mien, upon the top-most round of the ladder of fame, around which, as a panorama, circles a retrospect of our lives, and look down upon the many others struggling to gain the coveted vantage point, what are our thoughts? Are they those of joy? Are we eager to enter and mingle with a world as yet unexplored? Do we still retain the enthusiasm and frivolities so conspicuous but a short time ago? No. In their place we find a calmness amounting almost to indifference; an amalgamation of acquired clearness and foresight; a true appreciation of the trials, difficulties and complexities as yet only begun. Ah! it is one of the most solemn moments which we, perhaps, will ever know, and one which is pregnant with sorrow. For the past few years our life, actions and character have been embraced in our existence here; and we are now about to leave it to pass into an unknown future, black and unfathomable, which we approach with fear and trembling.

We have made many true and steadfast friends whom we are about to leave, perhaps never to see again; we are soon to pass away from our beautiful campus and all the happy recollections to which the thought gives rise. It is a sad thought, but one from which we will emerge with ready hands and hearts brave to face the world.

In the stanza:

"Between two worlds life hovers like a star,
'Twixt night and morn upon the horizon's verge.
How little do we know that which we are,
How less what we may be."

our position is most truly portrayed. In reality, what do we know? We have taken one peep through the eyeglass of Wisdom only to draw back appalled at the vast scope of the view. We have taken but one dip into the fount of knowledge and find ourselves bewildered with the depth and density of it. But one thing we *do* know: what should and will be our quest in the future: more light, more truth, more knowledge, more facts, more combinations of facts; these are our quest. And if in that quest we fail, as many have failed before us, we know that in the search of truth, failures are sometimes the condition of victory and the true conquerors often those whom the world calls the vanquished.

"Thus far our chronicle; and now we pause,
Though not for want of matter, but 'tis time."

HISTORIAN.



The Junior Class.

Motto:
"Superare Contende."

∴ ∴ '91 ∴ ∴

Class Colors:
Orange and Black.

Class Cheer:
RAH, RAH, RAH!
X-C-I
NONAGINTA UNUS!
OF LEHIGH!

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HARRY W. BIGGS, - - - - - *President.*
MICHAEL D. SOHON, - - - - - *Vice President.*
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ELIAS VANDER HORST, - - - - - *Athletic Representative.*

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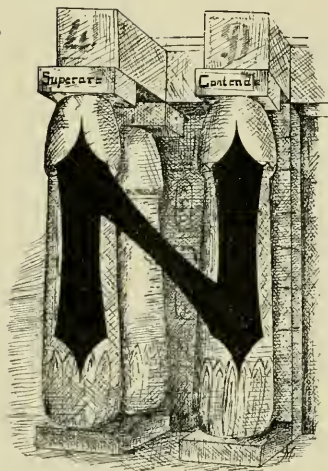
NAME.	COURSE.	UNIVERSITY ADDRESS.	HOME ADDRESS.
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Junior History.



NOW it came to pass in the seventh year of the reign of Prex., the Governor of Lehigh, James being guardian of the Palace, and Nemo, Tetrarch of Acephalus, (which being interpreted is called in the vulgar tongue the Gym.) that there came into the Country of Bethlehem a band of youth, of noble form, and in mind unsurpassed. For, behold, it was a custom of Prex. to gather in each year youths from north and south, yea even from the Isles of the Sea, and the region round about Hellertown, that they might increase in wisdom, and drink in learning at the feet of the Scribes and Doctors that were there, and might learn the mysteries of the punt-out and the touch-down.

Now the men who came each year, were called according to the time of their exodus, wherefore the band of which record is here given was called by the name of the Class of '91.

Now, in the first year of their sojourn in the land, the men of '91 did great things, for they strove mightily and conquered in much, the tale whereof hath another told. And in the second year of their abiding, they saw many strange and wondrous things, not the least among which was the company of babes who dared to raise their hands against those in high places. This strife and the issue thereof hath been told in yet another volume. The writer of this record (and his record is true) saith only that the Class of '91 smote heavily their enemies, until the fame of them was clean gone forever.

And it came to pass that in due time the men of this class spoke one to another, saying, let us go even unto Allentown, and let us eat, drink and be merry. And they did even so; and they feasted and were glad, and it was well with them.

But, behold, yet another foe was in store for them! For, lo, a Philistine entered into the land and destroyed the fair pleasures thereof. Now the name of this Philistine was called Calculus. And verily, though great was the strength of him, yet cold was the day when the men of '91 gat themselves not thither. And when the days grew warm, and the sound of the lacrosse stick was heard in the land, they planned to rid themselves of their enemy, and to burn him with fire. So they rose secretly in the night and bound the Philistine and burned him. And lo, they sang and danced, and made merry with the sound of the timbrel, and the psaltry, and the sackbut. For this their enemy was done away with. And so they separated, each into his own home.

And they came yet again into the land of Bethlehem, and they were then called the Juniors. And they saw the maidens of the land, that they were fair, and they danced with the damsels, and sang and said soft words to them, as is the way of Juniors.

But they forgot not that they were men, and they strove for the mastery in sports and games, and applied their minds unto wisdom. And so it is with them, and as to what shall be, who can tell?

Yet this much may we say: as they have begun so may they continue. May they wax strong and increase as a mighty tree, even as the oaks of the University Park; may they stretch out their branches and overshadow the land and be the glory of it. May their feet tread on the high hills; may they see the beauty of the world and the richness of it, and have it in their hands for a possession. And so may it be with them.

Here endeth the *third* lesson.

HISTORIAN.

The Sophomore Class.

Motto:
In Omnia Paratus.

∴ ∴ '92 ∴ ∴

Class Colors:
Blue and White.

Class Cheer :

KI, YI!
LE-HIGH!
'92, RAH!

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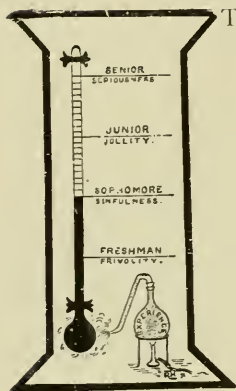
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Sophomore History.



It is with perhaps pardonable pride, that the writer makes his second feeble attempt to harvest the history of '92. The position of a Class Historian is one of grave difficulties. Weary nights, spent in trying to make honest pen and ink record deeds which never had their reality, are his fate. But amid it all comes the sweet consolation, that he will at least be free from criticism: for it is out of fashion for men to read history—class history, at least.

Yes, we are Sophomores. We have reached the stage to which our freshmanic eyes had often looked with envy; we have broken through the freshmanic pod of greenness to assume that rôle known as the "Soph," and to enjoy the ecstasies which accrue therefrom. In accordance with one of the duties of the "Soph," together with the special order we received from the Faculty, we procured suitable accommodations for the incoming younglings, on their first landing in the sacred town. The accommodations we secured gave universal satisfaction, and the Faculty complimented us on carrying out their wishes to the letter. We had the most difficult task ever imposed upon a Sophomore Class at Lehigh, in having a class three times our number to purge of its freshness, and to teach the civilities of college life.

What a mighty rustle these specimens of green fruit thought they would create in college affairs. It was fresh, fresh, fresh; but it was only momentary; there was nothing substantial about it, and soon their evanescent pretensions faded away. Of course, the college immediately held a meeting to thank Providence, that despite the threatenings of this herd, the college was still safe.

With the usual egotism of the Fresh, they imagined they embodied all the requirements of foot-ball players; so an opportunity was given

for the realization of their dreams. We met them and instilled a few lessons into their brains by carrying off the victory. Oh! How the hearts of the exultant "Fresh" fell to the abyssinal depth of despair.

After winning the two preliminary heats of the cane-rush, for reasons quite specific, we did not make our usual show in the finals. The cane-rush was simply the "pitting" of three men against one, and no one in full possession of his senses, imagined that even a respectable defense could be made, not to entertain the idea of success. As it was, a most worthy stand was made against them. We do not pretend to do impossibilities, but when it is a matter of man to man, as in foot-ball, we claim to hold our own.

Our athletic interests during the past year have been steadily improving. We gave '91 a very small hole to crawl out of, in lacrosse.

The verbal expression of exultation of the class has been changed into the more rythmical expression: "Ki-Yi, Lehigh, '92, Rah."

It is not my purpose to fly off on a tangent in egotistic panegyrics of our worthy qualities as a class, as is customary in such weighty documents as class histories.

We entered a class of 109 men; but after having been subjected to an *a la pop-corn* roasting, with "Poppy Doo" as chief popper, one or two popped out of the basket to the class above, but alas! the most of us fell through its meshes to the land of "flunkdom" below.

We are subject to the changes which are wrought as we gradually climb the scale of college ascendancy; we once were poor, innocent Freshmen; now we are wicked Sophomores, looking forward to the time when we shall be love-making Juniors. We will not startle the world by saying that we are perfect. No one is more conscious of this than ourselves; we take delight in expressing our own follies. We have reduced them to a mathematical formula, so that our "math fiends" can amuse themselves in discovering the loci of idiosyncrasies involved.

But neither is it my purpose to discuss our faults. A few words to the fresh-children who have come amongst us. Although they pose as nothing and savor of the essence of nothing, they are yet, by the principles of the higher mathematics, capable of classification into "drawing chumps," "math fiends" and "wind bags," all of which are of a nature peculiar

to themselves, and in general quite harmless. There may be other classes not clearly defined, involved, indiscriminate and incomprehensible. On the whole, their incentive for work is nothing, their motto is nonentity; the present does not recognize them, the past counts them as oblivion. If it be in their power, the future shall be the record of the past.

The differential vibration set up by their appearance upon the college arena and their future decay will soon be dissipated. Indeed their very existence is a challenge to one of the chief conceptions of mechanics, that is, there may be absolute rest.

Finally, though naught, they will develop downwards. They are less than before and shall suffer diminution as time rolls on, and when their existence is merged into the absolute zero, their obituary notice will contain the sentiments, that nothing has existed; when, it is not known; how, it cannot be determined; why—the mystery of mysteries.

HISTORIAN.





The Freshman Class.

Motto:
Per Aspera ad Famam.

:o:'93:o:

Class Colors:
Red and Black.

Class Cheer:
'Ot not, 'Ot not,
'93.
Εσμεν 'ot ποτ'ot.

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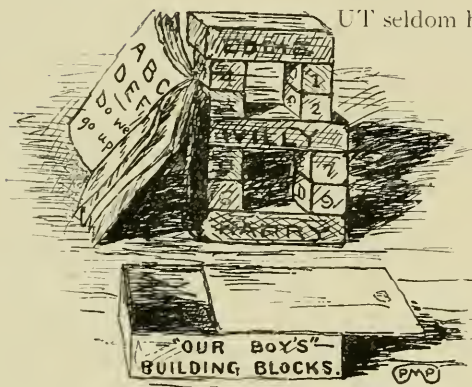
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W. F. SEMPER, $\Delta \Upsilon$	A.C.,	315 Cherokee St.,	Philadelphia. [N. J]
C. T. SHANNON,	E.E.,	18 W. Fourth St.,	Pittsburgh.
A. B. SHARPE, $\Delta \Upsilon$	E.M.,	419 W. Fourth St.,	Steubenville, O.
A. SHELDON,	C.E.,	327 Church St.,	Royalton, N. Y.
O. W. SHELLEY,	ARCH.,	Quakertown,	Milford Square.
C. B. SMITH,	E.E.,	452 Vine St.,	Norristown.
C. G. SMITH,	A.C.,	433 Wyandotte St.,	Cleveland, O.
F. K. SMITH, $\Phi \Delta \Theta$	C.E.,	$\Phi \Delta \Theta$ House,	Bayonne, N. J.
N. W. SMITH,	C.E.,	19 Cedar St.,	Williamsport.
R. A. L. SNYDER,	E.E.,	460 Walnut St.,	Callisle.
E. A. SOLELIAC, $\Phi \Gamma \Delta$	M.E.,	Allentown,	Allentown.
A. E. SPEIRS,	CLAS.,	65 Market St.,	Bethlehem.
G. STERN,	CLAS.,	315 Cherokee St.,	Frostburg, Md.
W. R. STEINMETZ,	E.E.,	420 Wyandotte St.,	Washington, D. C.
D. R. STOCKTON,	E.E.,	Allentown,	Phœnixville.
C. A. STRAW,	E.M.,	460 Vine St.,	Wilkes-Barre.
J. TAYLOR, JR.,	A.C.,	244 Market St.,	Bethlehem.
W. J. TAYLOR,	C.E.,	454 Vine St.,	Edmont.
C.W. THROCKMORTON, $\Sigma \Phi$	M.E.,	Westminster Flats,	
		Seneca St.,	Rosebank, N. Y.
L. E. TROUTMAN,	E.E.,	44 Church St.,	Pottsville.
O. W. TRUEWORTHY,	M.E.,	501 Cherokee St.,	Washington, D. C.
J. M. VAN CLEVE,	E.E.,	470 Vine St.,	Sewickley.
J. VAN MAUR,	C.E.,	24 E. Fourth St.,	W. Pittston.
F. C. WARMAN,	C.E.,	Packer & Walnut,	Washington, D. C.
W. L. WARNER, $\Phi \Delta \Theta$	M.E.,	$\Phi \Delta \Theta$ House,	Brooklyn, N. Y.
W. J. WEATHERBY,	E.M.,	467 Vine St.,	Swedesboro, N. J.
J. M. WELCH,	M.E.,	467 Vine St.,	Ulrichsville, O.
W. W. WENTWORTH,	E.E.,	420 W. Fourth St.,	Slatington.
C. D. WESTCOTT, $\Phi \Delta \Theta$	E.E.,	$\Phi \Delta \Theta$ House,	Washington, D. C.
J. H. WESTCOTT, JR.,	SCI.,	Fourth & Vine Sts.,	Wilmington, Del.
H. B. WILKINS, $\Delta \Phi$	A.C.,	440 Seneca St.,	Baltimore, Md.
J. L. WILLIAMS,	E.M.,	460 Vine St.,	Wilkes-Barre.



Freshman History.



UT seldom has the Historian of a Freshman class been afforded the pleasure of presenting so brilliant a history as that of the Class of '93 at Lehigh.

It would be useless to attempt to narrate the many interesting instances of our short college career, as the history of our cane-rushes and banquet alone would fill a

large volume. Taking these facts into consideration, the Historian will endeavor to present but a short account of our general history.

At the opening exercises of the University we learned that from over three hundred applicants for admission there had been chosen one hundred and seventy-four young students who were to compose the largest Freshman class that ever entered Lehigh.

In less than a week our freshness demonstrated itself in an attempt to carry canes. We were met at the bridge over the Monocacy, and severely rebuked by the Sophs, although they were unsuccessful in capturing the cane which we now have in our possession as our first prize.

Following the regular college custom, our next step was to obtain our class photograph. The first one, taken back of the Laboratory, was not large enough: and much to the chagrin of the Sophs, we outwitted them a second time and had taken the large class picture which now adorns the walls of not a few Freshmen dens.

After a second sharp and victorious rush on the triangle in South Bethlehem, we began to settle into that quiet calm (much to the pleasure of the Sophs) which always precedes a great storm.

At last came that eventful day which was to settle the question of supremacy between '92 and '93. On the afternoon of the fourth of October, one hundred and thirty-nine of our number, attired in various costumes, filed down the campus to the Athletic Grounds, where the Sophs were to meet their doom. Forming in a solid wedge with reserves on either side, we awaited the signal. Just sixteen minutes after the pistol was fired, we, illustrious '93, were declared the victors. On the following morning, the eyes of the Historian were greeted at all prominent bulletin boards by posters announcing the offer of a liberal reward by the Sophomore Class, for the return of a "cane-rush," which they had lost the previous afternoon on the athletic grounds in South Bethlehem.

To celebrate our victory we waited until Founder's Day, when we attended the sports, carrying canes and wearing our newly adopted class colors. Our next venture with the Sophs was a game of foot-ball in which we were beaten by a score of 10 to 6.

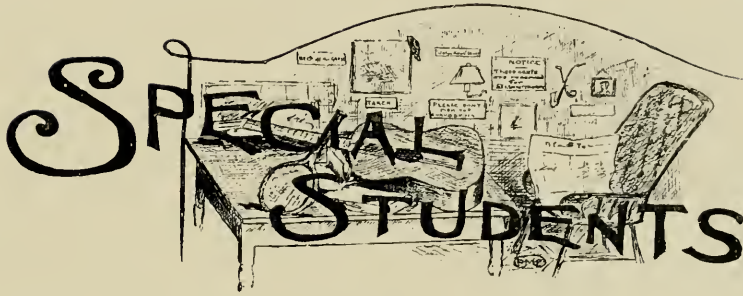
The last and probably most enjoyable event of our history was the successful banquet which we held at the Hotel Allen, Allentown, on the evening of Nov. 2nd. Just here let me quote a few words from '92's Freshman history. 'Ninety-one had given them permission to hold their class supper unmolested, in reply to which the Sophs wrote: "Oh! the wisdom, the sublimity of intellect manifested by '91 in this movement. But '91, you can just put this down, that you will not have the honor of introducing a new college custom, for we will have more "back-bone" to meet the Class of '93." As '93 thus far has been unable to see that the Sophs have made any use of this back-bone of which they boast, she naturally concludes that '92 is suffering from a severe attack of non-ossification. What a blessing the disease is not contagious.

In athletics our career has been equally brilliant. We filled the positions of centre and full-back on the 'Varsity Foot-Ball Team and at the Winter Sports, won the tug-of-war with two other first prizes and several seconds. No definite measures have yet been taken in regard to base-ball and lacrosse, although we expect fully to achieve some success in both. The various musical and literary societies have recruited largely from our class; and as regards our regular college work, the majority of the Faculty give us honorable mention.

Thus has begun the career of the Class of '93. As a body, we have accomplished much. What will be, can only be predicted from what has been. Let '93 ever rise in her full strength and her name be handed down as a model class, as it surely will be. "Freshies," you are doing well, let the world say what it may.

HISTORIAN.





NAME.	COURSE.	UNIVERSITY ADDRESS.	HOME ADDRESS.
W. A. AUCHINVOLE,	A.C.,	423 Pawnee St.,	Harrisburg.
A. H. BABCOCK,	A.C.,	Eagle Hotel,	Oakland, Cal.
W. W. BLUNT, Δ Φ	E.E.,	Δ Φ House,	Goshen, Md.
E. McN. BOND,	E.E.,	313 Cherokee St.,	Bolivar, Tenn.
F. S. CAMP, Ψ Υ	E.E.,	Ψ Υ House,	Brooklyn, N. Y.
F. COLLINS,	E.E.,	416 W. Fourth St.,	Smyrna, Del.
H. B. CONANT,	E.M.,	422 Pawnee St.,	New York City.
G. E. GAY,	E.M.,	57 Market St.,	Pottsville.
C. S. HAWKINS, Δ Φ	E.E.,	Δ Φ House,	Fall River, Mass.
A. F. HORNE,	A.C.,	Allentown,	Allentown.
H. HOWARD, JR., X Φ	A.C.,	Seneca&DakotaSts.,	South Bethlehem.
C. G. HOWE, Δ Φ	C.E.,	Δ Φ House,	Charleston, S. C.
H. ICHIKAWA,	A.C.,	424 W. Fourth St.,	Tokio, Japan.
A. E. JUHLER, Δ Υ	A.C.,	Fountain Hill H.,	Pomeroy, O.
J. LED. LANGDON,	E.M.,	Wyandotte St.,	Buffalo, N. Y.
C. W. PLATT, Δ Υ	A.C.,	139 Main St.,	New York City.
A. WAND,	E.M.,	Allentown,	Danville.
R. J. YOST,	A.C.,	101 W. Fourth St.,	South Bethlehem.
R. H. ZIMMERMAN,	E.M.,	Fountain Hill H.,	Louisville, Ky.

Summary of Students.

According to the Registers.

YEAR.	SPECIAL.	FRESH- MAN.	SOPHO- MORE.	JUNIOR.	SENIOR.	POST- SENIOR.	GRADU- ATE.	TOTAL.
1866 . . .	—	39	1	—	—	—	—	40
1867 . . .	—	19	25	6	—	—	—	50
1868 . . .	—	34	16	15	5	—	—	70
1869 . . .	—	24	25	11	15	—	—	75
1870 . . .	—	14	13	11	7	—	2	47
	PREP.							
1871 . . .	49	34	15	10	13	—	—	121
1872 . . .	44	35	20	13	5	—	—	117
1873 . . .	24	44	33	16	14	—	3	134
1874 . . .	—	51	33	21	10	—	—	115
1875 . . .	—	41	26	22	22	—	2	113
1876 . . .	—	60	16	19	13	2	1	111
1877 . . .	—	35	16	15	15	—	—	81
	LAW.							
1878 . . .	24	35	14	10	7	—	—	90
1879 . . .	—	44	21	9	11	—	2	87
1880 . . .	7	44	41	8	7	—	5	112
1881 . . .	4	66	33	30	7	—	4	144
1882 . . .	10	80	35	25	30	2	5	187
1883 . . .	12	106	60	27	26	5	13	249
	ELEC.							
1884 . . .	10 13	131	70	44	22	5	12	307
	ELEC.							
1885 . . .	10 8	115	83	52	37	4	15	324
	ELEC.							
1886 . . .	12 12	122	82	70	49	6	16	369
	ELEC.							
1887 . . .	7 23	121	91	65	66	8	20	401
	ELEC.							
1888 . . .	22	122	99	59	59	—	22	383
1889 . . .	21	165	80	69	54	—	29	418



Mansfield Merriman, C.E.

Mansfield Merriman, C.E.

MANSFIELD MERRIMAN was born in Southington, Connecticut, on the twenty-seventh day of March, 1848. At the age of eighteen years he was appointed a county surveyor in Connecticut. Two years later, in 1868, he entered the Sheffield Scientific School of Yale College and was graduated in 1871 with the degree of Bachelor of Philosophy. The following year was spent in advanced studies, and in 1872 he received the degree of Civil Engineer.

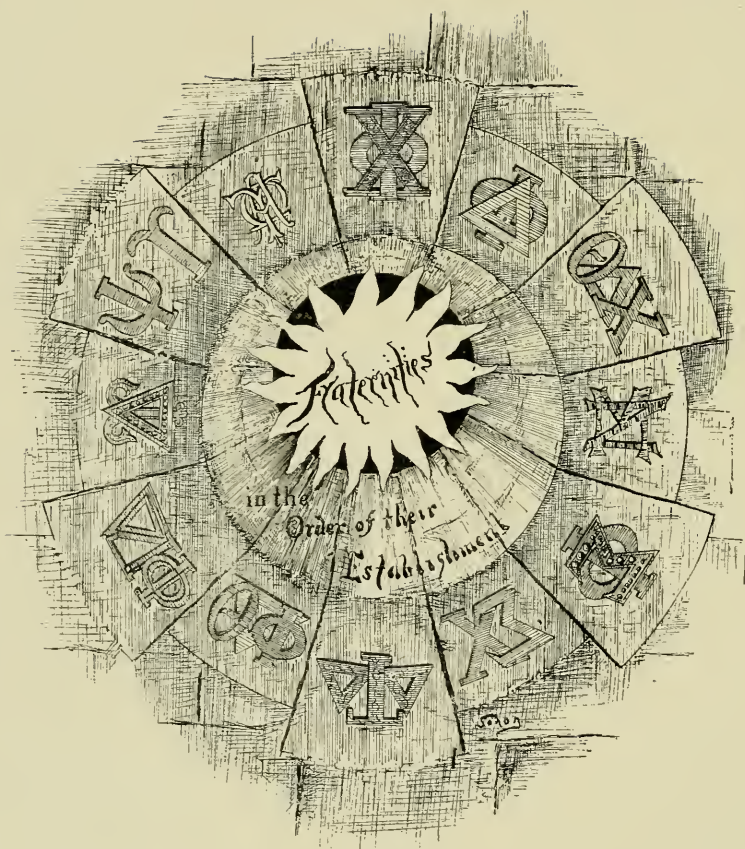
In 1872-3 he served as assistant engineer in the United States Engineer Corps, and during 1873-4 was engaged in bridge construction and general engineering work.

In 1875 he was appointed Instructor in Civil Engineering in the Sheffield Scientific School, where he continued until 1878, when he was elected Professor of Civil and Mechanical Engineering in Lehigh University. Since 1881, when this professorship was divided, he has filled the chair of Civil Engineering.

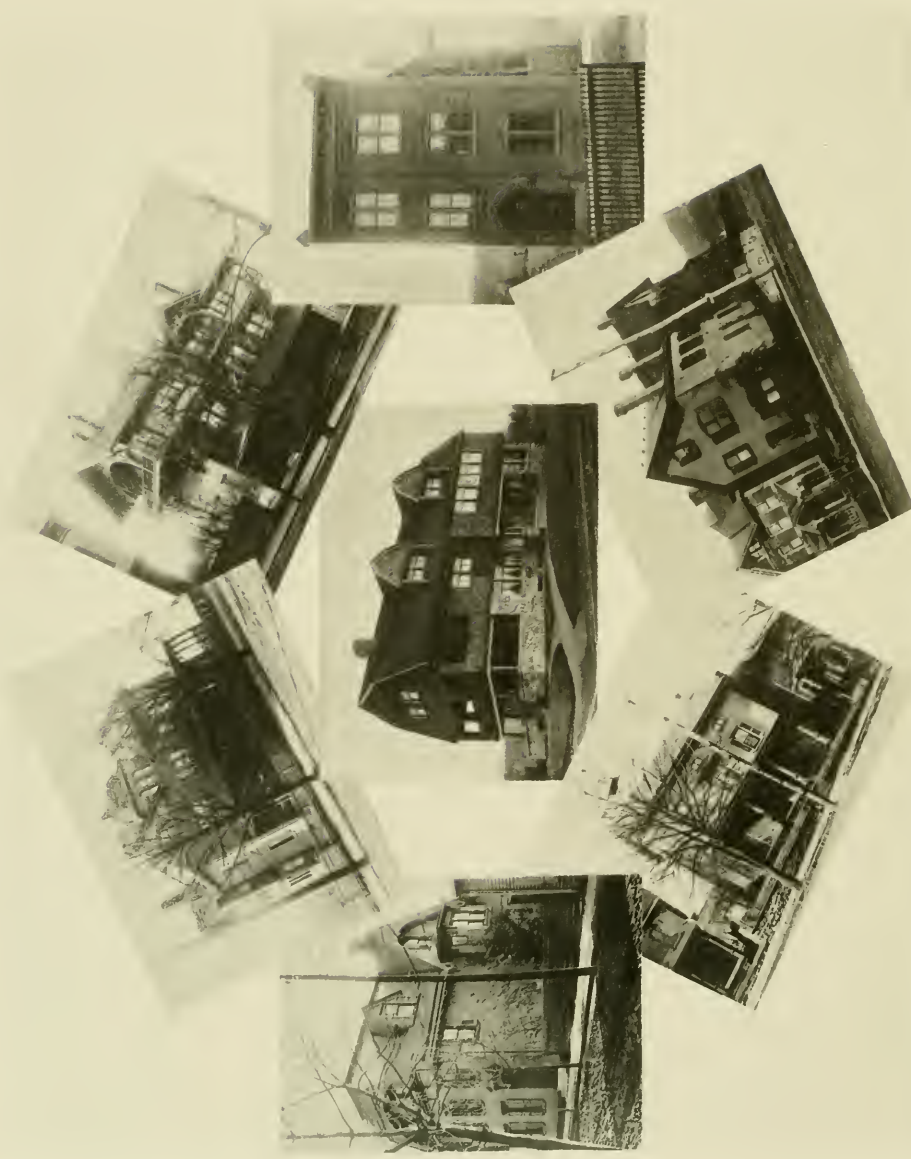
The degree of Doctor of Philosophy was conferred upon him in 1877, by Yale College.

For five years subsequent to 1880 he was Acting Assistant in the United States Coast and Geodetic Survey, and had charge of the primary triangulation of Pennsylvania. He is a member of the American Society of Civil Engineers, the American Philosophical Society, Deutschen Geometervereins, and other technical societies.

A number of works on mathematical and engineering subjects have been written by Professor Merriman which are recognized as standard, and are widely used as text-books in scientific schools and colleges. The titles of these works are: *Theory of Continuous Bridges* (1876), *Elements of the Method of Least Squares* (1877), *The Figure of the Earth*, an *Introduction to Geodesy* (1878), *A Text-Book on Least Squares* (1884), *The Mechanics of Materials, and of Beams, Columns and Shafts* (1885), *Text-Book on Roofs and Bridges* (1888), and a *Treatise on Hydraulics* (1889).



Fraternity Chapter Houses at Dehigh.



Phi Gamma Delta.

Phi Delta Theta.
Theta Delta Chi.

Sigma Phi.

Psi Upsilon.
Delta Phi.

Chi Phi.

List of Chapters.

PSI CHAPTER OF THE CHI PHI FRATERNITY.
Established, 1872.

ALPHA RHO CHAPTER OF THE ALPHA TAU OMEGA FRATERNITY.
Established, 1882.

NU CHAPTER OF THE DELTA PHI FRATERNITY.
Established, 1884.

ETA CHAPTER OF THE PSI UPSILON FRATERNITY.
Established, 1884.

NU DEUTERON CHARGE OF THE THETA DELTA CHI FRATERNITY.
Established, 1884.

LEHIGH CHAPTER OF THE DELTA UPSILON FRATERNITY.
Established, 1885.

PI CHAPTER OF THE SIGMA NU FRATERNITY.
Established, 1886.

BETA CHI CHAPTER OF THE PHI GAMMA DELTA FRATERNITY.
Established, 1886.

ALPHA CHAPTER OF PENNSYLVANIA OF THE SIGMA PHI FRATERNITY.
Established, 1887.

PENNSYLVANIA ETA CHAPTER OF THE PHI DELTA THETA FRATERNITY.
Established, 1887.

ALPHA RHO CHAPTER OF THE SIGMA CHI FRATERNITY.
Established, 1887.

BETA LAMBDA CHAPTER OF THE DELTA TAU DELTA FRATERNITY.
Reestablished, 1888.

Chi Phi.

Roll of Chapters.

ALPHA,	University of Virginia.
GAMMA,	Emory College.
DELTA,	Rutgers College.
EPSILON,	Hampden-Sidney College.
ZETA, .	Franklin and Marshall College.
ETA,	University of Georgia.
THETA,	Rensselaer Polytechnic Institute.
IOTA,	Ohio State University.
KAPPA,	Brown University.
LAMBDA,	University of California.
MU, .	Stevens Institute of Technology.
XI,	Cornell University.
OMICRON,	Sheffield Scientific School.
PI, .	Vanderbilt University.
RHO, .	Lafayette College.
SIGMA,	Wofford College.
TAU, .	University of South Carolina.
PHI,	Amherst College.
CHI, .	Ohio Wesleyan University.
PSI,	Lehigh University.
OMEGA,	Dickinson College.



Chi Phi.

1824.

Psi Chapter.

Established 1872.

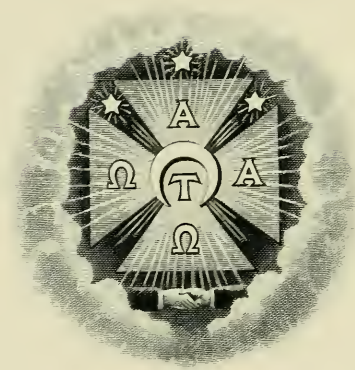
FRANCIS WEISS,
JOHN TINSLEY JETER,
JOHN JULIUS ZIMMELE,
LESTER PAIGE BRECKINRIDGE, (O)
GEORGE RODNEY BOOTH,
CHARLES MINER DODSON,
ALBERT BRODHEAD,
JAMES RAWLE.

CHARLES ELLERY COXE,
ALEXANDER CHAMBERS HOWARD,
EDWARD HAVILAND COXE,
HENRY SWEYER ECKERT,
PERCIVAL DRAYTON,
JOHN WILLIAM DEMOYER,
FRANCIS DUPONT THOMSON,
HARTLEY HOWARD, JR.,
GEORGE HALDEMAN ATKINS,
HENRY WHITMAN KERN,
EDWIN CLARKE REYNOLDS.

Alpha Tau Omega.

Chapters and Associations.

	ADDRESS.	FOUNDED.
N. C. ALPHA DELTA,	University of N. C., Chapel Hill, N. C.,	1879.
N. C. ALPHA ETA,	Mebane, N. C.,	1881.
N. C. ASSOCIATION,	Mebane, Salem, N. C.,	1887.
OHIO ALPHA NU,	Mt. Union College, Mt. Union, O.,	1882.
OHIO ALPHA PSI,	Wittenberg College, Springfield, O.,	1883.
OHIO BETA ETA,	Wesleyan University, Delaware, O.,	1887.
OHIO BETA NU,	University of Wooster, Wooster, O.,	1883.
OHIO ASSOCIATION,	Thornville, New Burlington, O.,	1888.
PA. ALPHA IOTA,	Muhlenburg College, Allentown, Pa.,	1881.
PA. ALPHA RHO,	Lehigh University, South Bethlehem, Pa.,	1882.
PA. ALPHA UPSILON,	Pa. College, Gettysburg, Pa.,	1882.
S. C. ALPHA CHI,	"Citadel," Charleston, S. C.,	1882.
S. C. ALPHA PHI,	S. C. University, Columbia, S. C.,	1883.
S. C. BETA XI,	Charleston College, Charleston, S. C.,	1889.
S. C. ASSOCIATION,	Charleston, Spartanburg, S. C.,	1882.
TENN. OMEGA,	Univ. of the South, Sewanee, Tenn.,	1887.
TENN. ALPHA TAU,	S. P. University, Clarksville, Tenn.,	1882.
TENN. LAMBDA,	Cumberland University, Lebanon, Tenn.,	1889.
VT. BETA ZETA,	University of Vermont, Burlington, Vt.,	1887.
VA. DELTA,	University of Virginia,	1868.
VA. EPSILON,	Roanoke College, Salem, Va.,	1869.
VA. ASSOCIATION,	Richmond, Charlottesville, Va.,	1874.
ALA. ALPHA EPSILON,	A. & M. College, Auburn, Ala.,	1885.
ALA. BETA BETA,	Southern University, Greensboro, Ala.,	1885.
ALA. BETA DELTA,	University of Alabama, Tuscaloosa,	1885.
ALA. ASSOCIATION,	Montgomery, Ala.,	—.
ARK. ASSOCIATION,	Little Rock, Ark.,	1888.
D. C. ASSOCIATION,	Washington, D. C.,	1886.
FLA. ALPHA OMEGA,	University of Florida, Lake City, Fla.,	1884.
FLA. ASSOCIATION,	Jacksonville, DeFinnak Springs, Fla.,	1885.



	ADDRESS.	FOUNDED.
GA. ALPHA BETA, .	University of Georgia, Athens, Ga., .	1878.
GA. ALPHA THETA, .	Emory College, Oxford, Ga., .	1881.
GA. ALPHA ZETA, .	Mercer University, Macon, Ga., .	1880.
GA. BETA IOTA, . .	Ga. St. Sch. of Technology, Atlanta, .	1888.
GA. BETA NU, . . .	Middle Ga. M. & A. C. Milledgeville, Ga.,	1888.
GA. ASSOCIATION, .	Macon, Gainesville, Ga., .	1884.
IOWA BETA ALPHA, .	Simpson College, Indianola, Iowa, .	1885.
KY. ZETA,	Central University, Richmond, Ky., .	1884.
KY. ASSOCIATION, .	Louisville, Ky.,	1883.
LA. BETA EPSILON, .	Tulane University, New Orleans, .	1887.
MICH. ALPHA MU, .	Adrian College, Adrian, Mich., .	1881.
MICH. BETA KAPPA, .	Hillsdale College, Hillsdale, Mich., .	1888.
MICH. BETA LAMBDA, .	University of Michigan, Ann Arbor, .	1888.
MICH. BETA OMICRON, .	Albion College, Albion, Mich., .	1889.
N.Y. ALPHA OMICRON, .	St. Lawrence University, Canton, N. Y.,	1882.
N.Y. BETA THETA, .	Cornell University, Ithaca, N. Y., .	1887.

Alpha Tau Omega.

Pennsylvania Rho Chapter.

A. CARDENAS,
G. AYRES,
V. MENDOZA,
H. M. KNAPP,
M. OROZCO,
L. OROZCO,
C. H. SIMPSON,
H. CLARK, JR.



LOCKPORT N.Y.

Delta Phi.

Roll of Active Chapters.

ALPHA,	.	Union College.
BETA,	.	Brown University.
GAMMA,	.	New York University.
DELTA,	.	Columbia College.
EPSILON,	.	Rutgers College.
ZETA,	.	Harvard University.
ETA,	.	University of Pennsylvania.
LAMBDA,	.	Rensselaer Polytechnic Institute.
NU,	.	Lehigh University.
XI,	.	Johns Hopkins University.
OMICRON,	.	Yale University.

Delta Phi.

Qu Chapter.

In Facultate.

HARRY HARKNESS STOEK.

Post Graduates.

FREDERICK LOUIS GRAMMER,

ARNOLD KARTHAUS REESE.

MDCCCXC.

CHRISTOPHER GADSDEN HOWE.

MDCCCXCI.

ELIAS VANDER HORST.

MDCCCXCII.

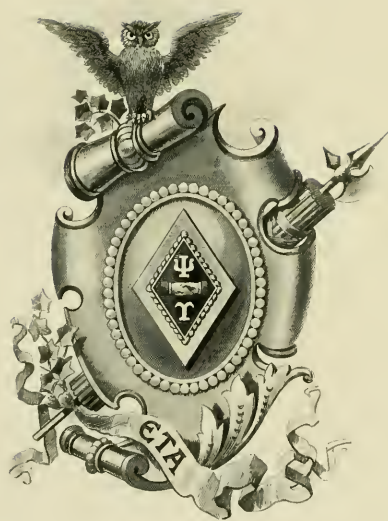
JOHN YOUNG BASSELL, JR.,
WILLIAM WILLIAMS BLUNT,
SAMUEL DEWEY CUSHING,

CORNELIUS SILSBY HAWKINS,
EDWIN GRAY RUST,
JOHN BONNER SEMPLE.

MDCCCXCIII.

SAMUEL PHILIP CURTIS,

CHARLES HAZARD DURFEE,
HARRY BLACKSTONE WILKINS.



A. E. CHASMAR & CO. N. Y.

Ψι Ψpsilon.

Roll of Active Chapters.

	ESTABLISHED.
THETA, Union College,	1833.
DELTA, University of the City of New York,	1837.
BETA, Yale University,	1839.
SIGMA, Brown University,	1840.
GAMMA, Amherst College,	1841.
ZETA, Dartmouth College,	1842.
LAMBDA, Columbia College,	1842.
KAPPA, Bowdoin College,	1843.
PSI, Hamilton College,	1843.
XI, Wesleyan University,	1843.
UPSILON, University of Rochester,	1858.
IOTA, Kenyon College,	1860.
PHI, University of Michigan,	1865.
PI, Syracuse University,	1867.
CHI, Cornell University,	1876.
BETA BETA, Trinity College,	1880.
ETA, Lehigh University,	1884.

Psi Upsilon.

Eta Chapter.

In Facultate.

EDMUND MORRIS HYDE, A.B., A.M., PH.D., B.B., 1873,
 EDWARD HIGGINSON WILLIAMS, JR., B.A., E.M., B., 1872,
 PRESTON ALBERT LAMBERT, B.A., II, 1883,
 LEWIS BUCKLEY SEMPLE, B.A., II, 1884.

In Urbe.

GARRETT LINDERMAN HOPPES, C.E., II, 1883,
 WILLIAM MCCORMICK, A.B., B., 1887.

In Universitate.

MDCCCLXXXIX.

CLARENCE WALKER.

MDCCCXC.

GEORGE ELLSWORTH GREEN,	CHARLES HERBERT MILLER,
THOMAS SMITH LEOSER,	EDWARD WILLIAMS PRATT.

MDCCCXCI.

WALTON FORSTALL,	ALLAN MOORE MASSER,
CHARLES MCKNIGHT LEOSER,	EDWIN ADDAMS QUIER.

MDCCCXCII.

GEORGE JONES BRIDGERS,	ROBERT REED KITCHELL,
FREDERICK STANLEY CAMP,	SYLVESTER WELSH LABROT,
ROBERT ARTHUR DOWNEY,	MATTHEW MCCLUNG, JR.,
ALFRED EMERSON JESSUP,	BYRON EDGAR WOODCOCK.

MDCCCXCIII.

ALDEN BROWN DIVEN,	FREDERICK PARDEE FULLER,
ROBERT FERRIDAY,	ALBERT ROSS GEE,
RICHARD DANIEL FLOYD,	WILLIAM GEER HITCHCOCK,
FREDERICK KITTREDGE JENNEY.	



Πύκνη

Theta Delta Chi.

Roll of Active Charges.

		ESTABLISHED.
BETA,	Cornell University,	1870.
GAMMA DEUTERON,	University of Michigan,	1889.
DELTA,	Troy Polytechnic Institute,	1853.
EPSILON DEUTERON,	Yale University,	1887.
ZETA,	Brown University,	1853.
ETA,	Bowdoin College,	1854.
THETA DEUTERON,	Mass. Institute of Technology,	1890.
KAPPA,	Tufts College,	1856.
LAMBDA,	Boston University,	1876.
MU DEUTERON,	Amherst College,	1885.
NU DEUTERON,	Lehigh University,	1884.
OMICRON DEUTERON,	Dartmouth College,	1869.
XI,	Hobart College,	1857.
PI DEUTERON,	College of the City of New York,	1881.
RHO DEUTERON,	Columbia College,	1883.
SIGMA,	Dickinson College,	1861.
PHI,	Lafayette College,	1866.
PSI,	Hamilton College,	1867.

Theta Delta Chi.

Resident Members.

HORACE ANDREW LUCKENBACH, 1886. ARCHIBALD JOHNSTON, 1889.

Active Members.

1890.

DAVID GARTH HEARNE.

1891.

JOHN MAVALL BEAUMONT,

JOHN SIDNEY HEILIG,

LESTER HALLETT ELY,

FRANK ANDERSON MERRICK,

HARRY TIMOTHY MORRIS.

1892.

JULIAN GREENE HEARNE.

1893.

EDWARD FARGASON,

WILLIAM EMLEY HOLCOMBE,

CHARLES WILLITTS GEARHART,

LEE STOUT HARRIS.



Dreka Pista

Delta Upsilon.

Roll of Chapters.

		ESTABLISHED.
WILLIAMS,	Williams College,	1834.
UNION,	Union College,	1838.
HAMILTON,	Hamilton College,	1847.
AMHERST,	Amherst College,	1847.
COLBY,	Colby University,	1852.
ROCHESTER,	Rochester University,	1852.
MIDDLEBURG,	Middleburg College,	1856.
RUTGERS,	Rutgers College,	1858.
BROWN,	Brown University,	1860.
MADISON,	Madison University,	1865.
NEW YORK,	New York University,	1865.
CORNELL,	Cornell University,	1869.
MARIETTA,	Marietta College,	1870.
SYRACUSE,	Syracuse University,	1873.
MICHIGAN,	Michigan University,	1873.
NORTHWESTERN,	Northwestern University,	1880.
HARVARD,	Harvard University,	1880.
WISCONSIN,	Wisconsin University,	1885.
LAFAYETTE,	Lafayette College,	1885.
COLUMBIA,	Columbia College,	1885.
LEHIGH,	Lehigh University,	1885.
TUFTS,	Tufts College,	1886.
DE PAUW,	De Pauw University,	1887.
PENNSYLVANIA,	University of Pennsylvania,	1888.

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Lehigh Chapter.

Established, 1885.

Post-Graduate.

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CHARLES WILTBERGER PLATT,

AARON HOWELL VAN CLEVE.

XCI.

ALBERT EDWARD JUHLER,

PAUL MAYO PAINE.

XCII.

WILBUR HEATH KRAMER,

FREDERICK WILLIAM SEMPER,

CASS KNIGHT SHELBY.

XCIII.

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UNIVERSITY OF SOUTH CAROLINA,
WASHINGTON AND LEE UNIVERSITY,
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UNIVERSITY OF NORTH CAROLINA,
MERCER UNIVERSITY,
UNIVERSITY OF ALABAMA,
NORTH GEORGIA COLLEGE,
UNIVERSITY OF GEORGIA,
EMERY COLLEGE,
UNIVERSITY OF LOUISIANA,
TULANE UNIVERSITY,
CENTRAL UNIVERSITY,
BETHEL COLLEGE,
UNIVERSITY OF THE SOUTH,
UNIVERSITY OF KANSAS,
UNIVERSITY OF MISSOURI,
UNIVERSITY OF TEXAS,
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LAMBDA,	De Pauw University.
XI,	Pennsylvania University.
PI,	Allegheny College.
TAU,	Hanover College.
UPSILON,	College of the City of New York.
PSI,	Wabash College.
OMEGA,	Columbia College.
ALPHA DEUTERON,	Illinois Wesleyan University.
BETA DEUTERON,	Roanoke College.
GAMMA DEUTERON,	Knox College.
EPSILON DEUTERON,	Muhlenberg College.
THETA DEUTERON,	Ohio Wesleyan University.
DELTA DEUTERON,	Hampden-Sydney College.
ZETA,	Indiana State University.
KAPPA DEUTERON,	Georgia University.
XI DEUTERON,	Adelbert College.
OMICRON DEUTERON,	Ohio State University.
DELTA XI,	California University.
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IOTA MU,	Mass. Institute of Technology.
THETA PSI,	Madison University.
NU,	Bethel College.

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ALFRED C. MOVER, M.D., Σ Δ, 1882.
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In the University.

1889.

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BETA OF NEW YORK, . . . Hamilton College, . . .	1831.
ALPHA OF MASSACHUSETTS, Williams College, . . .	1834.
DELTA OF NEW YORK, . . . Hobart College, . . .	1840.
ALPHA OF VERMONT, . . . University of Vermont, . . .	1845.
ALPHA OF MICHIGAN, . . . University of Michigan, . . .	1858.
ALPHA OF PENNSYLVANIA, . . . Lehigh University, . . .	1887.

Sigma Phi.

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GARRETT BRODHEAD LINDERMAN,
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GEORGE GODDARD CONVERS,
EDWARD MORTON MCILVAIN,
WARREN ABBOTT WILBUR,
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INDIANA BETA,	Wabash College,	1852.
WISCONSIN ALPHA,	University of Wisconsin,	1857.
ILLINOIS ALPHA,	Northwestern University,	1859.
INDIANA GAMMA,	Butler University,	1859.
OHIO BETA,	Ohio Wesleyan University,	1860.
INDIANA DELTA,	Franklin College,	1860.
MICHIGAN ALPHA,	University of Michigan,	1864.
OHIO GAMMA,	Ohio University,	1868.
INDIANA EPSILON,	Hanover College,	1868.
INDIANA ZETA,	De Pauw University,	1868.
VIRGINIA ALPHA,	Roanoke College,	1869.
MISSOURI ALPHA,	University of Missouri,	1870.
ILLINOIS DELTA,	Knox College,	1871.
IOWA ALPHA,	Iowa Wesleyan University,	1871.
GEORGIA ALPHA,	University of Georgia,	1871.
GEORGIA BETA,	Emory College,	1871.
GEORGIA GAMMA,	Mercer University,	1872.
NEW YORK ALPHA,	Cornell University,	1872.
OHIO DELTA,	University of Wooster,	1872.
PENNSYLVANIA ALPHA,	Lafayette College,	1873.
CALIFORNIA ALPHA,	University of California,	1873.
MICHIGAN BETA,	Michigan Agricultural College,	1873.
VIRGINIA BETA,	University of Virginia,	1873.
VIRGINIA GAMMA,	Randolph-Macon College,	1873.
OHIO EPSILON,	Buchtel College,	1875.
NEBRASKA ALPHA,	University of Nebraska,	1875.
VIRGINIA DELTA,	Richmond College,	1875.
PENNSYLVANIA BETA,	Pennsylvania College,	1875.

		ESTABLISHED.
PENNSYLVANIA GAMMA,	Washington and Jefferson College,	1875.
TENNESSEE ALPHA, .	Vanderbilt University, . . .	1876.
MISSISSIPPI ALPHA, .	University of Mississippi, . . .	1877.
ALABAMA ALPHA, .	University of Alabama, . . .	1877.
VIRGINIA EPSILON, .	Virginia Military Institute, . . .	1878.
ILLINOIS ZETA, .	Illinois Wesleyan University, . . .	1878.
ALABAMA BETA, . . .	Alabama Polytechnic Institute, . . .	1879.
PENNSYLVANIA DELTA,	Allegheny College, . . .	1879.
VERMONT ALPHA, . . .	University of Vermont, . . .	1879.
PENNSYLVANIA EPSILON,	Dickinson College, . . .	1880.
MISSOURI BETA, . . .	Westminster College, . . .	1880.
MINNESOTA ALPHA, . . .	University of Minnesota, . . .	1881.
IOWA BETA, . . .	State University of Iowa, . . .	1882.
SOUTH CAROLINA BETA,	South Carolina College, . . .	1882.
KANSAS ALPHA, . . .	University of Kansas, . . .	1882.
MICHIGAN GAMMA, . . .	Hillsdale College, . . .	1882.
TENNESSEE BETA, . . .	University of the South, . . .	1883.
OHIO ZETA, . . .	Ohio State University, . . .	1883.
TEXAS BETA, . . .	University of Texas, . . .	1883.
PENNSYLVANIA ZETA, . . .	University of Pennsylvania, . . .	1883.
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NEW YORK GAMMA, . . .	College of the City of New York, . . .	1884.
MAINE ALPHA, . . .	Colby University, . . .	1884.
NEW YORK DELTA, . . .	Columbia College, . . .	1884.
NEW HAMPSHIRE ALPHA,	Dartmouth College, . . .	1884.
NORTH CAROLINA BETA,	University of North Carolina, . . .	1885.
KENTUCKY DELTA, . . .	Central University, . . .	1885.
MASSACHUSETTS ALPHA,	Williams College, . . .	1886.
TEXAS GAMMA, . . .	Southwestern University, . . .	1886.
ALABAMA GAMMA, . . .	Southern University, . . .	1886.
VIRGINIA ZETA, . . .	Washington and Lee University, . . .	1887.
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ETA,	University of Mississippi.
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LAMBDA,	Indiana State University.
MU,	Denison University.
XI,	DePauw University.
OMICRON,	Dickinson College.
RHO,	Butler University.
TAU,	Roanoke College.
CHI,	Hanover College.
PSI,	University of Virginia.
OMEGA,	Northwestern University.
GAMMA GAMMA,	Randolph-Macon College.
DELTA DELTA,	Purdue University.
DELTA CHI,	Wabash College.
ZETA ZETA,	Centre College.
ZETA PSI,	University of Cincinnati.
THETA THETA,	University of Michigan.
SIGMA SIGMA,	Hampden-Sidney College.
ALPHA BETA,	University of California.
ALPHA GAMMA,	Ohio State University.
ALPHA DELTA,	Stevens Institute of Technology.
ALPHA EPSILON,	University of Nebraska.
ALPHA ZETA,	Beloit College.
ALPHA ETA,	University of Iowa.
ALPHA THETA,	Mass. Institute of Technology.
ALPHA IOTA,	Illinois Wesleyan University.
ALPHA LAMBDA,	University of Wisconsin.
ALPHA NU,	University of Texas.
ALPHA XI,	University of Kansas.
ALPHA OMICRON,	Tulane University.
ALPHA PI,	Albion College.
ALPHA RHO,	Lehigh University.
ALPHA SIGMA,	University of Minnesota.
ALPHA TAU,	University of North Carolina.
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Delta Tau Delta.

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ZETA,	Adelbert College.
ETA,	Buchtel College.
THETA,	Bethany College.
IOTA,	Michigan State College.
KAPPA,	Hillsdale College.
MU,	Ohio Wesleyan University.
PHI,	Hanover College.
CHI,	Kenyon College.
PSI,	Wooster University.
BETA ALPHA,	Indiana University.
LAMBDA,	Vanderbilt University.
PI,	University of Mississippi.
BETA DELTA,	University of Georgia.
BETA EPSILON,	Emory College.
BETA THETA,	University of the South.
BETA IOTA,	University of Virginia.
BETA XI,	Tulane University.
ALPHA,	Allegheny College.
GAMMA,	Washington and Jefferson College.
NU,	Lafayette College.
RHO,	Stevens Institute of Technology.
UPSILON,	Rensselaer Polytechnic Institute.
BETA LAMBDA,	Lehigh University.
BETA MU,	Tufts College.
BETA NU,	Mass. Institute of Technology.
BETA SIGMA,	Boston University.
BETA OMICRON,	Cornell University.
OMICRON,	Iowa State University.
XI,	Simpson College.
OMEGA,	Iowa State College.
BETA GAMMA,	University of Wisconsin.
BETA ETA,	University of Minnesota.
BETA KAPPA,	University of Colorado.
TAU,	Franklin and Marshall College.
BETA BETA,	De Pauw University.
BETA ZETA,	Butler University.



Orison Phelps

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Beta Lambda Chapter.

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1890.

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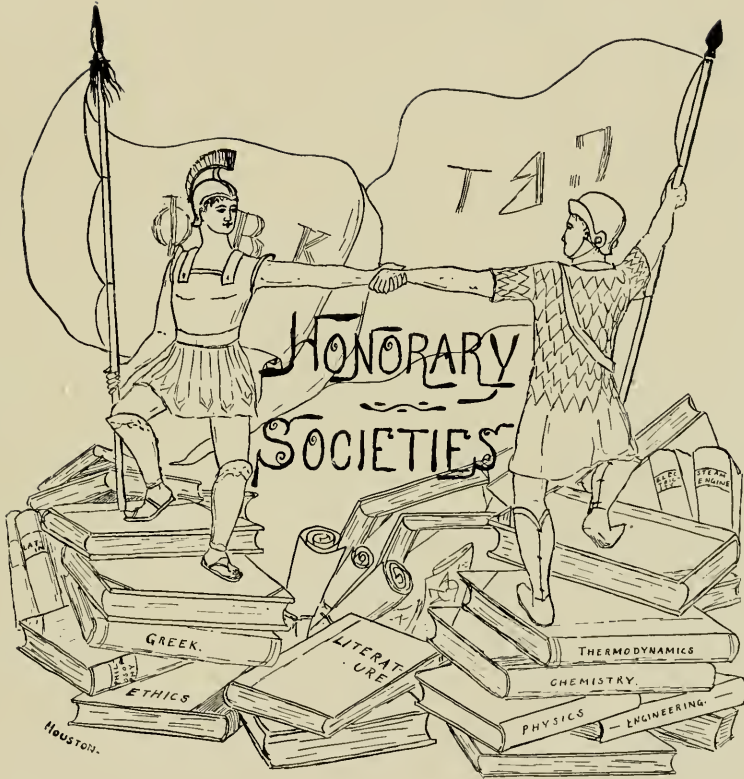
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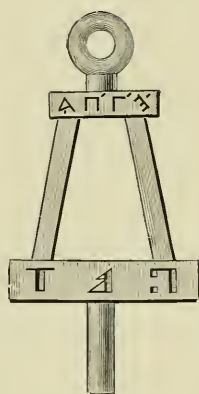
Summary.

	XΦ	ATΩ	ΔΦ	ΨΥ	ΘΔΧ	ΔΥ	ΣΝ	ΦΓΔ	ΣΦ	ΦΔΘ	ΣΧ	ΔΤΔ	NO CHAP.	TOTAL
Resident,	8	—	1	6	2	—	—	5	9	2	3	—	—	36
Post-Grad.,	—	1	2	1	—	1	—	1	1	—	1	—	—	8
Senior,	3	1	1	4	1	3	1	5	1	4	—	1	1	26
Junior,	3	3	1	4	5	2	5	3	4	2	4	1	1	38
Sophomore,	3	1	6	8	1	3	2	3	3	4	1	3	1	39
Freshman,	2	2	3	7	4	7	4	7	4	7	—	2	—	49
Total,	19	8	14	30	13	16	12	24	22	19	9	7	3	196



Tau Beta Pi.

Alpha of Pennsylvania.



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CHARLES BULL, '78,
AUGUSTUS P. SMITH, '84.

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AUGUSTUS T. THROOP,

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FRANK R. FISHER,

WILLIAM A. STEVENSON,

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CHARLES C. TOMKINSON,

WILLIAM V. KULP,

AARON H. VANCLEVE.

1891.

WALTON FORSTALL.

Phi Beta Kappa.

Beta of Pennsylvania.



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ROBERT PACKER LINDERMAN.	LEWIS BUCKLEY SEMPLE.
	1886.
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GEORGE RODNEY BOOTH,	GEORGE ARTHUR RUDDLE,
HARRY TOULMIN,	WILLIAM PATTERSON TAYLOR.
	1887.
MILTON HENRY FEHNEL,	GARRETT BRODHEAD LINDERMAN,
HARVEY SHEAFE FISHER,	WADE HAMPTON WOODS,
	CHARLES FREDERIC ZIMMELE.
	1888.
ALBERT GEORGE RAU,	WILLIAM LYNNVILLE NEILL,
	CHARLES MCCOMBS WILKENS.
	1889.
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HARRY S. ECKERT,

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LESTER H. ELY,

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RALF R. HILLMAN.

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F. LOUIS GRAMMER,

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Resident Member.

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J. M. BEAUMONT,

SOPHOMORES.

3 P H * 8 n ; O æ
M ff M K S B
M o d * X y h b
i j M K n ;

5 : Y 2 J + A P
i D L Æ i a I n
M 4 G a 7 j 8 2 I
A o 2 Y 6 Z
J v H æ s b k

z Z E X b • G
M G D * v † S + 8
3 6 ? R : 5 b N
i z 9 d & o 6 • 5 n

Class of 1869, L. U.

(See page 2.)

THE year 1890 marks the end of the first twenty-five years of the existence of the Lehigh University. The corner-stone laid in 1865 by Judge Packer's bequest, a magnificent structure has arisen; and an institution of learning is here whose name has rapidly become famous.

The Class of 1869 was the first offspring of our *Alma Mater*; and the subsequent records of the five members of this class redound abundantly to the credit of old Lehigh, whose fair name '69 is now proud to own. The course of studies opened in September of 1866 and covered three years, and the first class graduated one man each in the Civil and Mechanical Engineering and Analytical Chemistry Courses, with two Specials.

H. H. CORBIN, A.C., was born in 1845, in Barbadoes, in the British West Indies. His memories of Lehigh are evidently pleasant, for his eldest son graduated here in 1889, just twenty years after himself, and a second will complete his course in 1891. Mr. Corbin's home is now in Telluride, Col., where he is in the ore and bullion trade and President and Treasurer of the Telluride General Supply Company.

MILES ROCK, C.E., is a Pennsylvanian by birth. His career at Lehigh was that of a leader and he graduated the Valedictorian of his class. His name stands among those at the head of the roll of great American engineers and our Civil Engineering Department points to it with pride in the knowledge that his ability was moulded therein. He is at present located in Guatemala in astronomical work for the United States Government. His home is in Washington, D. C.

C. W. ROEPPEL, SPEC., is an extremely busy man, but he can still find time to think of days nearly a quarter of a century ago when at Lehigh he acquired the training which has since been so useful to him. He holds the responsible position of Superintendent for the Solid Steel Company of Alliance, Ohio.

CHARLES E. RONALDSON, M.E., was born in Pottsville, Pa., October 3, 1847. He entered the Sophomore Class at Lehigh from the Polytechnic College, Philadelphia. He has served in many positions, among which he particularizes those of Chief Engineer for Sir William Siemens; builder of several steel and iron mills of the country, among them the Granby Mining and Smelting Works of Pittsburgh, Kansas; Superintendent of Tyrone Forges and of the Cleveland Rolling Mill (where were first used open-hearth steel forges); and Consulting Engineer to the International Boiler Company of New York City, which position he now holds. He is also one of the Board of Managers of the Franklin Institute, Philadelphia.

CLARENCE A. WOLLE, SPEC., was born in Bethlehem, Pa., Oct. 14, 1849, and since his graduation, has resided in his native town with whose interests he has always been actively identified and whose development is due in a large measure to him. His business interests are very extensive, comprising real estate, electric lighting and other enterprises, and occupy his time very largely. He and Mr. Roepper were the first students of Analytical Chemistry in the Laboratory which then occupied the west end of the basement of Christmas Hall, under Professor Charles M. Wetherill.

This short sketch is presented to Lehigh Alumni and Undergraduates with the assurance that intense interest in the welfare of Lehigh men is a predominant factor in their sentiments.





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F. DU P. THOMPSON, '90.

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EDWARD FALES COWARD.

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C. E. CLAPP,
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R. S. MERCUR,

E. R. REETS.

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WAR WHOOP—"I call for a new cut."

Oracle, C. E. FINK.

Senior Team, S. D. WARRINER and C. E. FINK.

Junior Team, A. E. JUHLER and P. M. PAINE.

Sophomore Team. C. K. SHELBY and F. W. SEMPER.

Freshman Teams,

{	A. B. SHARPE and E. B. HURST.
{	H. D. McCASKEY and J. E. MILLER.

Poet, H. ICHIKAWA.

St. Andrew's Guild.

Organized, 1886.

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REV. J. W. KAYE,	<i>Honorary Vice-President.</i>
F. K. HOUSTON,.	<i>President.</i>
P. M. PAINE, .	<i>Vice-President.</i>
C. S. HAWKINS, .	<i>Treasurer.</i>
E. J. PRINDLE, .	<i>Secretary.</i>



Members.

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JAMES BARLOW CULLUM,
CHARLES WILTBERGER PLATT,
ELIAS VANDER HORST.

Absent Members.

GUSTAV AYRES,
ERNEST HIPOLITE DUVIVIER,
HENRY STEWART MCKEE,
CHARLES HENRY MILLER,
JOSEPH MICHAEL O'MALLEY,
JOSEPH WILLIAM STONE,
GEORGE BROWN ZAHNISER.

Lehigh University Christian Association.

Organized April 12, 1890.

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W. A. AUCHINVOLE,	<i>Corresponding Secretary.</i>
W. Y. BRADY,	<i>Treasurer.</i>

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W. A. AUCHINVOLE,
H. KEMMERLING,
W. Y. BRADY,
J. S. GRIGGS,
E. DOOLITTLE,
W. CRESSON,

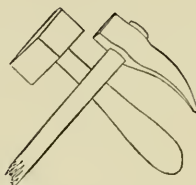
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G. H. FROST,
H. D. MCKENZIE,
H. F. NASE.

Associate.

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H. K. LANDIS,
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S. A. RHOADS,
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G. A. GESSNER,
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C. E. COXE,	<i>Secretary and Treas.</i>

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<i>Most Worthy High Bucky-Buck,</i>	H. T. MORRIS.
<i>Most Worthy High Priest,</i>	E. H. COXE.
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	} D. EMERY.
<i>Lord High Executioner,*</i>	R. A. DOWNEY.
<i>Officers of the Guard,</i>	} J. Y. BASSEL.
	} J. H. TONKINS.
<i>Irish Member,</i>	J. M. BEAUMONT.
<i>Sleepy Members,</i>	} G. H. ATKINS.
	} C. S. HAWKINS.
<i>Most Worthy High Candidate,†</i>	JOHN SALMON CARMAN.

* Implement of War; revolver.

† The candidate has taken only the first degree, and feeling rather sore, begged to have the 2nd, 3rd, 4th and 5th degrees postponed till some future date, and is therefore not yet a full fledged member, but hopes he soon will be.



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D. A. USINA,	<i>Secretary.</i>
M. N. USINA,	<i>Treasurer.</i>

Executive Committee

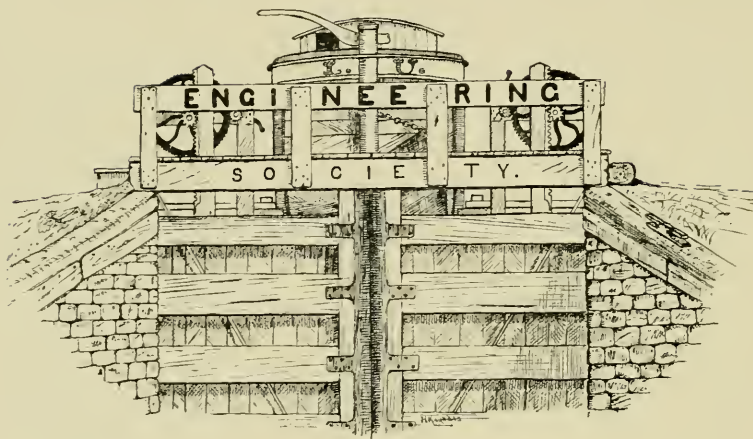
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D. A. USINA.

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H. K. LANDIS,	<i>Librarian.</i>

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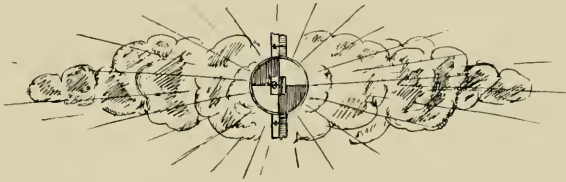
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D. T. WILLIAMS,	H. WRIGHT.

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L. R. SHELLENBERGER,
EMANUEL CHAO,
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J. A. MCCLURG,
P. M. PAINE,

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C. H. MILLER,	T. S. LOESER.

1891.

W. E. AUCHINVOLE,	A. EAVENSON,
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D. EMERY.	



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Society of Civil Engineers. Class of '90.

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J. G. FLECK,	T. A. STRAUB.

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QUIER, LESLIE.

Second Tenor:

EAVENSON.

Baritones:

CULLUM, HILLMAN, PLATT.

Basses:

MATHESON, CLEVELAND.

Soloist:

EMERY.

Prémière Danseuse:

MME. LEFÉVRE.

Juggler:

ICHIKAWA.

The Southern Club.*

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D. G. HEARNE,
H. M. KNAPP,
E. VANDER HORST,
P. B. WINFREE,
J. Y. BASSELL, JR.,
H. CLARK, JR.,
J. G. HEARNE,

S. W. LABROT,
M. MCCLUNG, JR.,
C. H. SIMPSON,
E. MCN. BOND,
E. FARGASON,
R. H. ZIMMERMAN,
S. L. GRAHAM, JR.,
J. O. MATTHEWSON, JR.,

G. J. BRIDGERS.

* Officers not yet elected.

Club Hispano Americano.

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FONGER DE HAAN.

Active Members.

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ENRIQUE LEFEVRÉ,
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MURRAY B. AUGUR,
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P. DRAYTON,
R. R. HILLMAN,
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R. A. DOWNEY,
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H. W. KERN.

THE EPITOME'S Illustrated Directory.

JZ MILLY



HEILIG



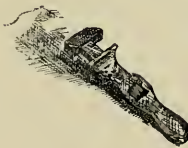
RIEDEL



MILLER



LÜCKENBACH



RENCH.



PLATT



FISHER



BARRELL



AUGUR



GEE



STOUT



DOOLITTLE



WEBB



GOODMAN



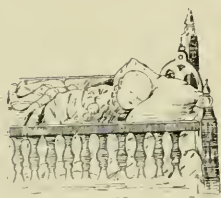
GRAMMER



POTTS



PAINÉ



KNAPP



COOKE



COXE



Carmen Lehighense.

Words by F. C. Lauderburn.

Music by E. U. Gibbs.

Raise to Lehigh your voices in ju bi lant song Till the mountains resound with the
 sto - ry, Drink to Lehigh in cups o ver brimming with wine Let the grape
 shed its blood for her glo - ry O Lehigh, thy song e-ver sing - ing, Will
 set all the heavens to ring - ing With thy Glo ry and Honor and Might Take a
 queen on the mountain enthroned Thy 'scepter the True and the Right

Carmen Lehighense.

1. Raise to Lehigh your voices in jubilant song,
Till the mountains resound with the story;
Drink to Lehigh in cups overbrimming with wine;
Let the grape shed its blood for her glory.

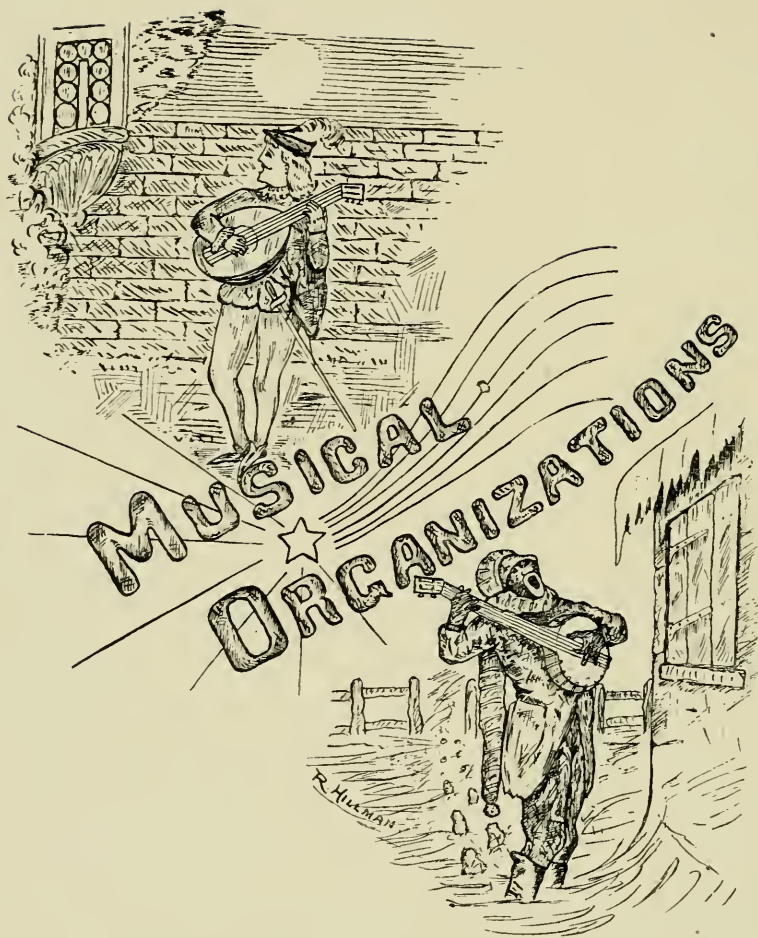
CHORUS—O Lehigh! thy sons ever singing,
Will set all the heavens to ringing
With thy glory and honor and might;
Like a queen on the mountain enthronéd,
Thy sceptre the True and the Right.

2. When the toil-laden days die in tremulous haze
And the twilight steals out of the East,
And when night, ever calm, drops its sweet soothing balm,
Then to Lehigh we'll sing and we'll feast.

CHORUS—O Lehigh! thy sons, etc.

3. As the sun at its setting looks back with regret
On the place of its dawning, so we,
When we're nearing Life's brink, ere our sun has quite set,
Will look back and think, Lehigh, of thee!

CHORUS—O Lehigh! thy sons, etc.





J. J. Flather.
C. S. Hawkins.

W. W. Blunt.
A. Potter.

H. Wright.
E. M. Mcivain.

P. M. Paine.
A. K. Reese.

H. H. Stock, E. W. Pratt,
R. R. Hillman.

G. F. Burnett.
C. E. Belfield.
R. Goodman.
E. J. Prindle.

University Glee Club.

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ALEXANDER POTTER,	<i>Manager.</i>
H. WRIGHT,	<i>Secretary.</i>
J. FRED. WOLLE,	<i>Director.</i>

Musical Committee.

J. FRED. WOLLE, <i>Prest. ex-officio,</i>	R. R. HILLMAN,
A. K. REESE,	C. S. HAWKINS.

First Tenors.

E. M. MCHLVAIN,
A. POTTER,
W. W. BLUNT,

Second Tenors.

J. J. FLATHER,
H. WRIGHT,
P. M. PAINE,
C. S. HAWKINS.

First Bases.

H. H. STOEK,
A. K. REESE,
E. W. PRATT,
E. J. PRINDLE,

Second Bases.

R. GOODMAN,
R. R. HILLMAN,
C. E. BELFIELD,
G. F. BURNETT.



H. E. Kern.	R. Goodman.	E. U. Gibbs.	R. H. Zimmerman.	H. D. McCaskey.	H. K. Landis.
J. C. Escobar.	G. Pettinos.	F. S. Loeb.	C. H. Simpson.	W. Hartman.	J. M. Beaumont.
		W. S. Jones.		F. K. Smith.	S. Clewell.

University Orchestra.

Musical Director.

E. U. GIBBS, '90.

First Violins.

J. M. BEAUMONT, '91,

C. H. SIMPSON, '92.

Second Violins.

H. K. LANDIS, '90,

L. M. HUBBY, '93.

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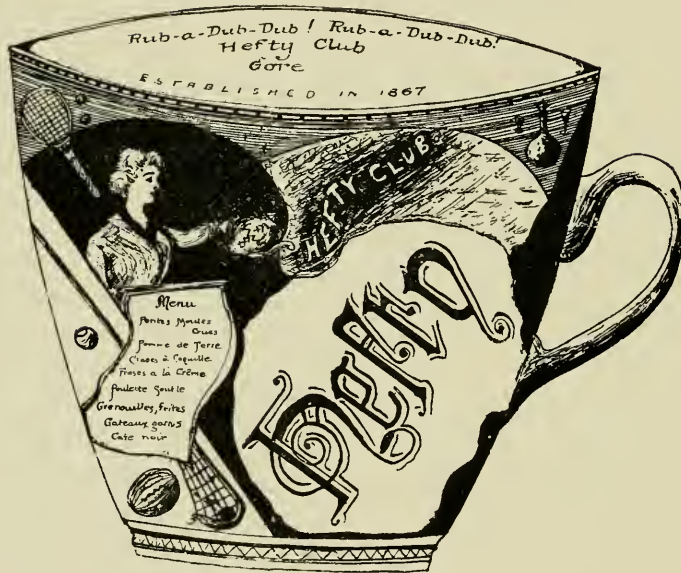
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Founded, 1885.

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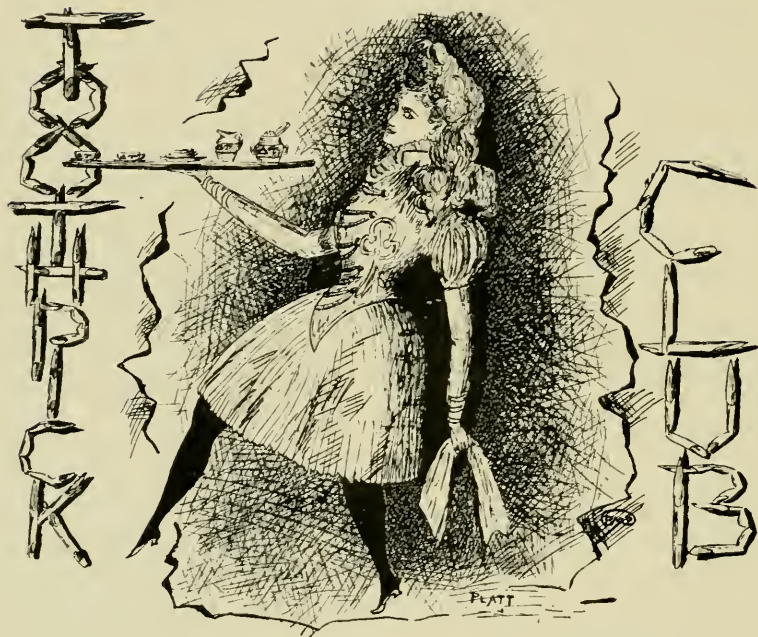


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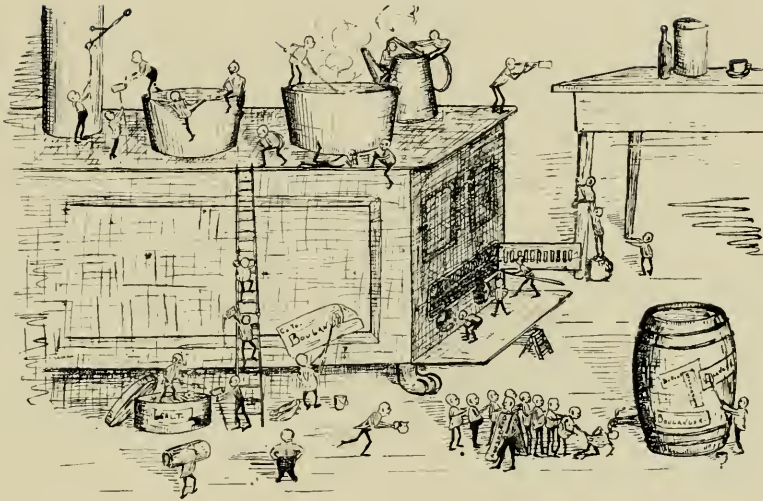
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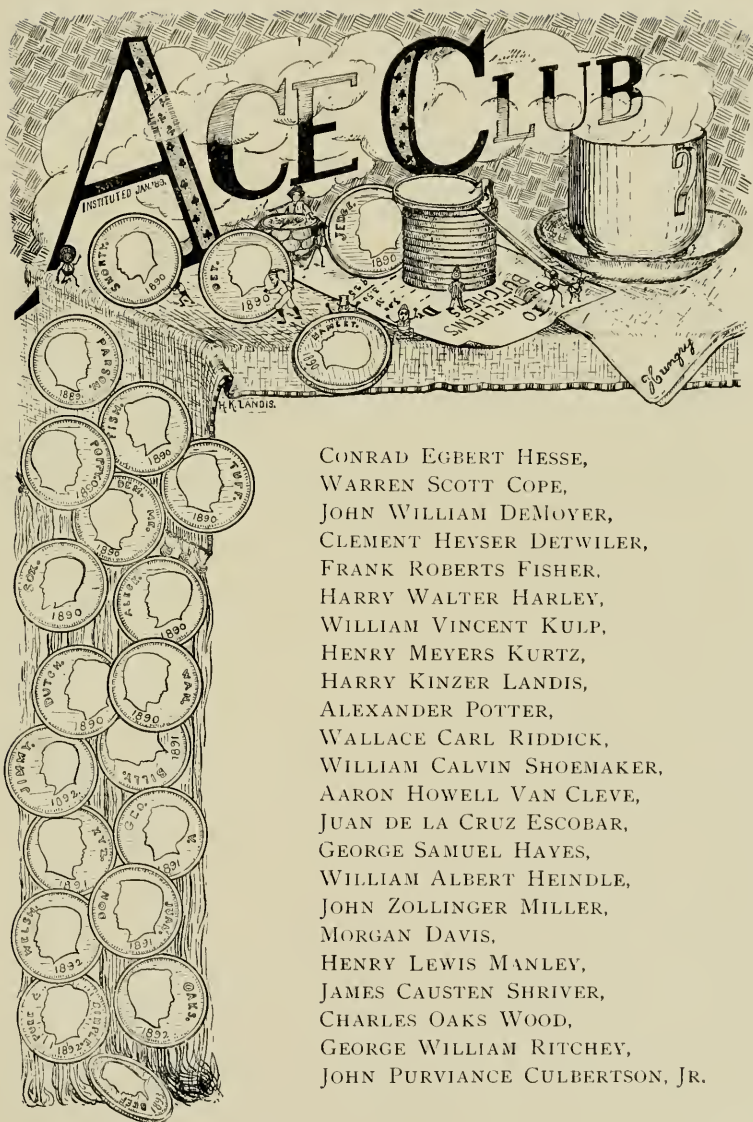
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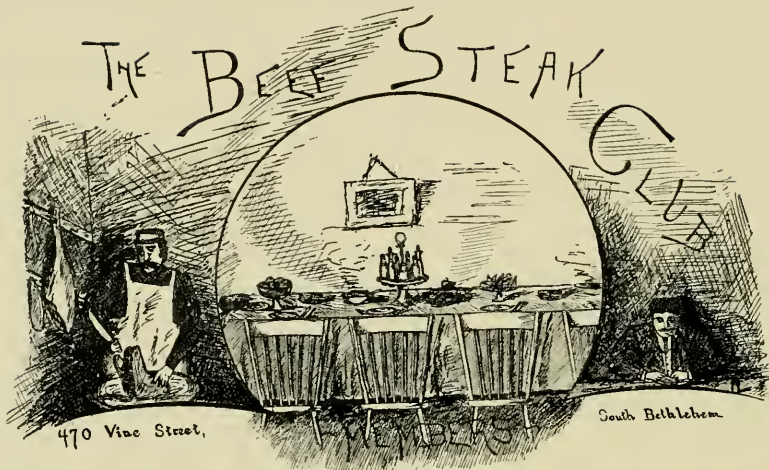
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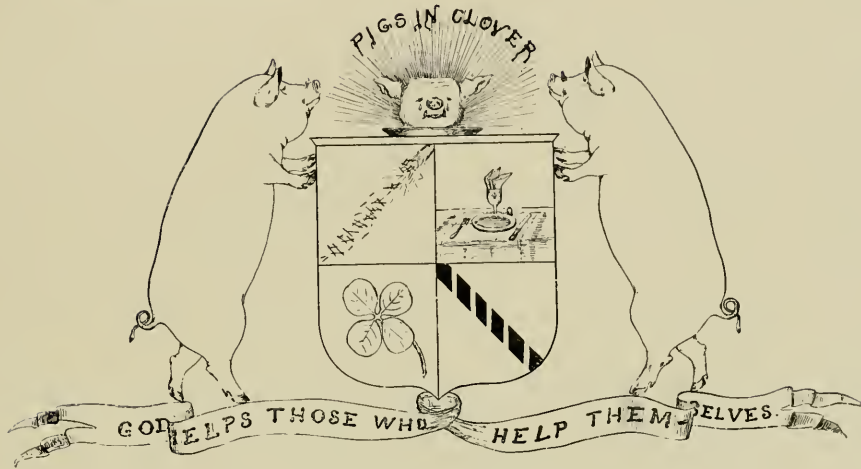
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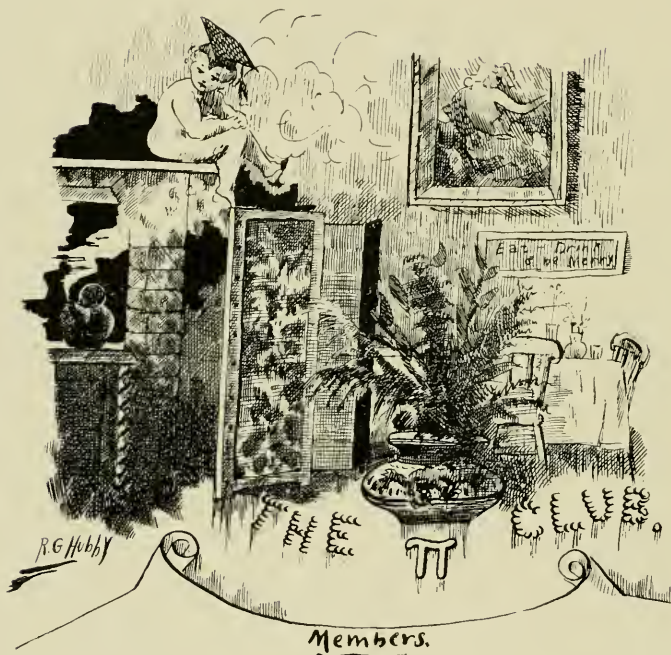
† Has a Spiritual Look.

¶ The Parson.

†† Onion Eater.

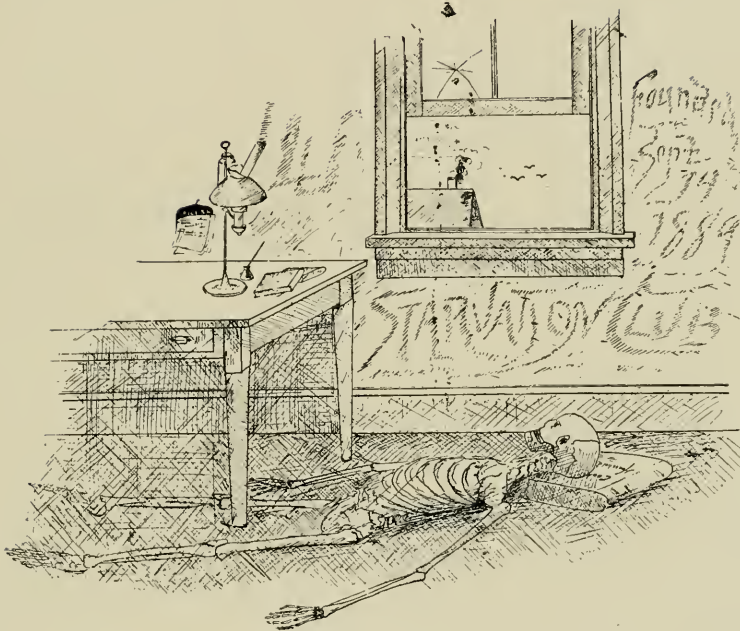
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A Parical Interlude.

DRAMATIS PERSONÆ.

DUKE PREX, the Magnificent.
 THE LECTURER ON SHAKESPEARE.
 THE TRIGONALTRISOCTOEDRON.
 THE PARABOLIC HYPERBOLOID.
 THE U. J. D., (closely connected with the C. N. L.)
 LORD EDMUND, PH.D., (the Manual of Polite Conversation.)
 SIX OTHER NOBLES.
 THE CUSTODIAN OF THE PALACE.

DUKE (*Alone*): The hour has struck. The conspirators are tardy. Why tarry the wheels of their wagonettes? But, methinks, 'tis an opportunity to rehearse my oration for to-morrow. (Rises on his dignity and orates). "The list of inexcused absences will now be read. Those having five or more are admonished; those who have ten or more are reprimanded, and notice will be sent home to their parents." Good! 'Twill make the culprits shudder. But, ho! the nobles begin to arrive.

(*Enter the Trigonaltrisoctohedron and Lord Edmund, followed by the Custodian of the Palace.*)

THE CUST.: The list of the condemned, your Grace. (*Gives the Duke a paper and exit*).

THE TRIG.: I say, Duke, don't be too hard on that first fellow; he gets all his clothes from Lunnon, doncher know.

LORD EDMUND: He has a *close* connection with England, so to speak; ha, ha, ha! That reminds me of a story. At an Easter festival in a Sunday School I was superintending, they sang a hymn during the distribution of the Easter eggs—

THE DUKE (*Interrupting*): Enough of frivolity. Where are the others?

LORD ED. (*Absorbed in his anecdote*): The hymn began, "Sing my soul the exalted *lay*—" See? Ha, ha, ha!

THE TRIG: There was need of a correction there, Eh?

THE DUKE: Corrections, my Lords, are made in red ink, and take effect on the Monday following such change.

(*Enter the U. J. D.*)

THE U. J. D. (*Removing his shawl*): Ugh, gentlemens, I haf not been late; So?

(*Enter the Lecturer on Shakespeare and the Parabolic Hyperboloid in earnest converse.*)

THE LECT. (*To the Parab. Hyp.*): Yes, with no further prologomena, as I was saying before, I prefer Bock to Lager. Observe the alliteration. Bock Beer's best.

THE PARAB. HYP. (*Evidently bored*): I have never observed either.

THE LECT.: The Immortal Bard, the Swan of Avon, was partial to a mug of sack or mulled wine. Speaking of the Avon, I have been there myself.

LORD ED. (*Eagerly*): I have been there too; but it is nothing compared with Leipsic.

THE TRIG.: Ah, I say, you should go to Lunnon, doncher know.

THE U. J. D.: Ugh, gentlemens, zey are not zo goot yet vonce as Parée.

LORD ED.: That reminds me of a conundrum. What is the difference between Moses and Middleton?

THE DUKE (*Interrupting*): The meeting will come to order.

LORD ED. (*Not to be deterrea*): One ends in *Oses*, see?—

THE DUKE (*Disregarding him, and with emphasis*): The meeting will come to order.

LORD ED. (*Triumphantly*): And the other in *Iddleton*. Good, isn't it?

THE DUKE (*After reading the list of the accused*): Is there anything to be said about these gentlemen?

THE LECTURER (*In his most rotund tones*): I beg that you will exculpate the second man on the list. He has made a most excellent record in Philology.

THE DUKE: 'Tis done!

THE TRIG: Pray, do not forget the gentleman whom I have mentioned.

THE DUKE: 'Tis done! I mean 'tish't done.

LORD ED. (*In his sportive way*): Keep the ball rolling!

THE DUKE (*Majestically*): There must be no ball playing west of the ravine, my Lords.

THE PARAB. HYP.: I hope that your Grace will eliminate from this place

the fourth named gentleman. His knowledge of Quaternions is an imaginary quantity.

THE U. J. D.: Or in ozzier words, seemply seero. But he is one most egse-lent feet-ball player, all the while yet.

THE DUKE: He will receive the extreme penalty of the law. Is there any more business before the house?

THE TRIG.: As it is rather warm here I would suggest that the Custodian of the Palace be instructed to throw some fine coal on the fire, thereby decreasing the longitudinal diameters of the interstices between the coals. It will perceptibly lower the caloric.

NOBLES (*In chorus*): So say we all of us!

THE DUKE (*After ransacking Webster; very faintly*): I—I— will try to have it done—ah, during the Summer vacation. As there is no more business, get ye hence! Observe the proper order in going out—Seniors first, then the Juniors, then the Sophomores, and last of all, the Freshmen. (*They go out one by one. The Duke lays a detaining hand on Lord Edmund and causes him to go out last.*)

CURTAIN.



Lehigh Publications.

The Epitome.

PUBLISHED ANNUALLY BY THE JUNIOR CLASS.

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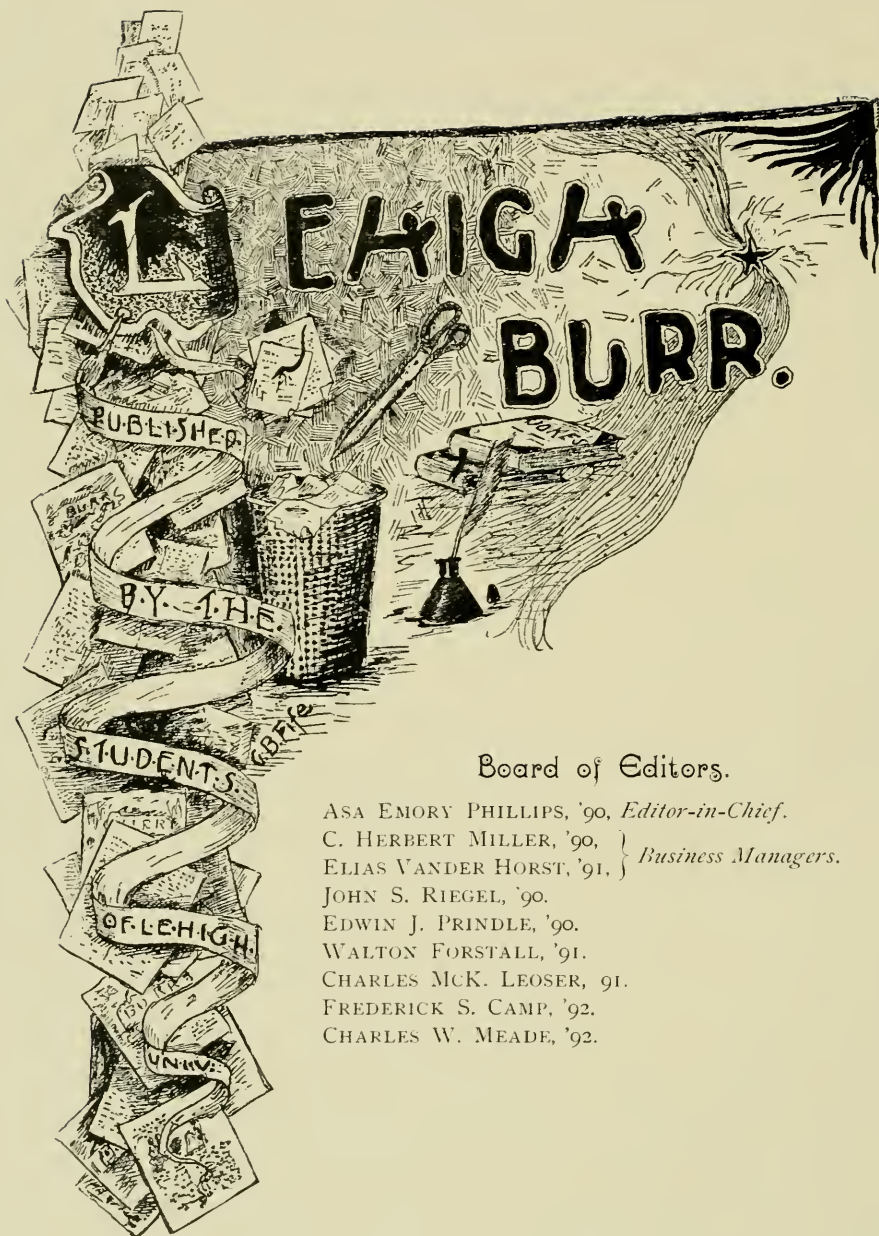
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The Journal is issued quarterly by the Engineering Society, and contains abstracts from the proceedings of its meetings, selections from papers read before the Society, and papers and communications contributed by professors and alumni of the University.



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The Steed.

" *Quadrupedante putrem sonitu quatit ungula campum.*"

<p>You have all heard, of course, Of the wonderful horse That assisted the downfall of Troy; And Bucephalus fiery, The world-renowned shyer, he Is known to each studious boy.</p> <p>But the horse I shall mention, Pray give due attention, Is not of the fore-mentioned race ; As a steed he is trusty In riding through musty Old volumes with speed and with grace.</p> <p>In forests of Greek He's <i>au fait</i>, so to speak, And in Latin he's wholly at home ; While in fields of geometry, Mechanics, trigonometry, He is charmed, yes delighted, to roam.</p> <p>When a sine is assigned To be drawn or designed, <i>Sine die</i> or <i>sine qua non</i>, Your position, be sure, Is a true sinecure, If this charger you're mounted upon.</p> <p>He will work, it is plain, With all might, but not main. For his mane—it is not mane-ifest ; And though he is tail- Less, what would avail ? Since by flies he is never distressed.</p>	<p>When the Freshmen with glee Mount the saddle of thee, O steed with the treacherous eye ! For a moment they're happy Since they think it's quite snappy, With no Prof. nor Instructor near by.</p> <p>How they think they're the stuff, How they think they can bluff, As they canter 'cross country galore ! But its not quite so clear, oh ! How they get that big O, When Poppy computeth the score.</p> <p>The Sophomore is wiley ; With nonchalant smile he Mounts for the dangerous race ; And through thick, and through thin, The superior grin Still adorns his superior face.</p> <p>Ah, 'tis sad, but 'tis true, That of Sophomores a few Are thrown as they're nearing the goal ; And at re's and re-re's, And re-re-re-re-re's, They cuss when they're paying the toll.</p> <p>As for Juniors, they never Make a foolish endeavor To mount this invincible steed ; And Senioric haughtiness Regards it as naughtiness To do else than on foot to proceed.</p>
---	--

L'ENVOI.

Now the tale you've all learned,
And we trust you've not spurned
The moral that's hid in the story ;
Riding's fraught with great danger
For one who's a stranger,
And the path is not covered with glory.

University Sunday,

JUNE 16, 1889.

Baccalaureate Sermon

DELIVERED BY

THE REV. ELIPHALET NOTT POTTER, D.D., LL.D.,
President of Hobart College.

Class Day,

TUESDAY, JUNE 18, 1889.

Order of Exercises.

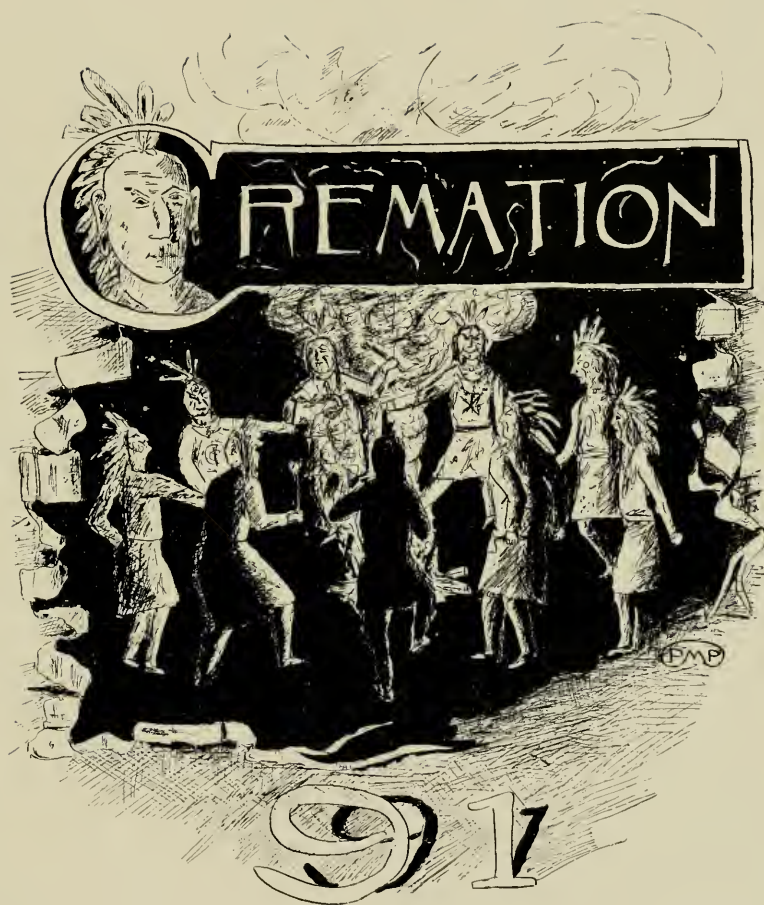
<i>Toast,</i>	HARRY RUSH WOODALL.
<i>Presentation,</i>	ARCH JOHNSTON.
<i>Poem,</i>	HERBERT MACKENZIE CARSON.
<i>Prophecy,</i>	CHARLES HERBERT DEANS.
<i>Ivy Oration,</i>	C. WILLIAM SCHWARTZ, JR.
<i>Tablet Oration,</i>	PEARCE ATKINSON.

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J. S. KELLOG, JR.,	A. L. ROGERS,
C. W. SCHWARTZ, JR.,	A. M. SMYTH,
	C. P. TURNER.

Alumni Day,

JUNE 19, 1889.



CREMATION

Class of '91,

MONDAY, JUNE 17, 1889.

Order of Procession.

Band.

Five Chiefs.

Medicine Man.

Five Chiefs.

Choir.

Braves.

ROUTE.

Christmas Hall to New Street; across Bridge to Church Street; to Centre Street; to Market Street; to Main Street; to Moravian Seminary; to Main Street Bridge; to Fourth Street; to New Street; to Campus.

Order of Exercises.

AT SEMINARY.

<i>Song,</i>	.	.	.	.	.	.	CHORISTERS.
<i>Oration,</i>	.	.	.	.	.	.	M. B. TATE.
<i>Song,</i>	.	.	.	.	.	.	CHORISTERS.

ON CAMPUS.

<i>Music,</i>	.	.	.	.	.	.	FAIRVIEW BAND.
<i>Song,</i>	.	.	.	.	.	.	CHORISTERS.
<i>Oration,</i>	.	.	.	.	.	.	H. W. MYRICK.
<i>Song,</i>	.	.	.	.	.	.	CHORISTERS.
<i>Oration,</i>	.	.	.	.	.	.	G. S. HAYES.
<i>Song, Funeral March,</i>	.	.	.	.	.	.	CHORISTERS.
<i>Incantation,</i>	.	.	.	.	.	.	J. Z. MILLER.

The Cremation.

Committee:

G. B. ZAHNISER,
P. DRAYTON,

H. S. MCKEE,
ELIAS VANDER HORST,
M. B. TATE.

The Burning of Calculus.

WHERE the staid Moravian, in vale and woodland
Rears his humble dwelling place among the red-men,
There, upon the forest trails the ferns are trodden ;
There the tribe of 'Ninety-One, of Lehigh's nation,
Journeys towards the council house, where bound and beaten,
Lies the fearful Calculus, accursed, evil ;
He who brought calamity and dreadful ruin
Down upon their hunting grounds and peaceful wigwams ;
He who killed his prisoners with poles and axes.
He it was whose stratagems and conjurations,
Following each with others in continuous number,
Made their young men weaponless in chase or battle,
Caused their paths to disappear in endless loci ;
So the tribe excitedly flocks in to see him,
Put a lasting terminus upon his actions,
And to bring security among their lodges.

When 'tis sought to scrutinise his form and feature,
To separate their lineaments from one another,
Behold, they're indeterminate, befogged and varied !
Taunts and gibes continual, increasing ever,
Threats and scowls and doggedness of braves and sachems,
Tell the wretched Calculus of doom impending,
With revengeful paying back of every outrage.

As the shadows lengthen out across the mountain,
Gradually the noisy throng grows small and smaller
Round the sullen prisoner—disperses slowly,
Scatters 'mong the firelights and smoky lodges.
Now a general hastening, excited, eager,
Children running in and out, a hum and bustle,
Sachems shouting lustily their wills and orders,
Squaws preparing head-dresses for braves' adornment,
Plaiting beads on moccasins and flaming blankets ;
Does the captive, watching these, mistake their meaning ?
Does he think their purpose is to feast and free him ?
Well he knows their enmity, their burning hatred.
Does he think the gathering of arms and feathers,
Hunting knives and tomahawks, with tails of panthers,
Snake skins, bear claw necklaces, or paint and wampum,
Painted faces hideous as scowling demons :
Does he think these demonstrate to satisfaction,
All his latest theorems of safety for him ?

So proceeds the hurriedness of preparations,
Soon they take the prisoner, benumbed and stiffened,
Place him 'twixt two warriors of stalwart bearing,
Range the shouting multitude before, behind him,
And when all's in readiness they start the column.
Past the wary sentinels, without the stockade,
Down the New trail, riverwards, with tom-toms beating,
Every thicket teeming is upon the wayside,
With an awestruck company of red-skin strangers,
Bursting out their tracheas with frightful screaming.
When the farther river-bank is reached, the column
Bends and threads a labyrinth of woven pathways,
Wavy like the index sign of integration.

Braves all dancing, fire-brands thrown high above them,
Rushing pell-mell to and fro along the pathway
Passing through the settlement, at last they gather
Where the trail turns suddenly to pass the great lodge,
Where the young squaws drearily exist imprisoned.
Maws and papaws put them there to beat the tom-tom,
Or at long, long intervals to roast some venison
By the wigwam fire-side, but seldom this is.
'Ninety-One's great battle-cry in honor of them
Cracks the black obscurity of night wide open, and
'Mid the stillness following, the voice arises
Of the mighty orator, the singer, charmer,
Feeding to their famished ears such honeyed wisdom,
That it proves a medicine of greatest power,
Makes them dance, collectively give joyous answer :
"It is nice, Oh, Wah-Hoo-Wah, we like it really."

Sadly does the multitude withdraw its presence,
Slowly to the council-house direct its foot-steps.
Now the nights' real business nearing swiftly ;
Numberless as forest leaves the tribesmen gather,
Surely no tribe's council-house can hold them,
So upon the mountain-side they build the fire.
Old men from an inner line, about them younger
Sitting round the fire in concentric circles ;
Inmost stands great Calculus, all eyes upon him.
And the long pipe circulates among the sachems
While they discuss thoughtfully his deeds atrocious.
Now Chief Te-Te-Tameo arrives, angry,
Sends a glance which terrifies the wizened culprit,
Calls upon the councillors to pay back fully
Every savage cruelty, and threatens shortly to
Make the brute symmetrical to double axes.

Scalplocks round him straighten up and fingers tighten
On the half-drawn hunting knives, in anger loosened,
As the fiery words of his burn on the hearing—
Words like these no redskin's tongue can better, yet a
Little, impish, wizened one excited by them,
Dried, almost, as Calculus jumps up and with his
Squeaky voice and wobbling tongue spits curses at him ;
Brings a host of magnitudes, and co-efficients,
Differential formulæ and curves to straighten,
To their shuddering memories, a horrid picture.
Soon the war-club signifies the joint decision
Of the old men. Mutterings among the tribe's men
Increase, become clamorous for death and torture.

Now let mighty Calculus exert his power;
Let him stop Big Medicine from working round him
All the cruel sorceries which lead to burning,
While they slowly drag him on to where the death is
Waiting for him, merciless. Now strong hands seize him,
Bind him to coördinates, pile curves about him, an
Infinite variety of gnarled and crooked,
Twisted, jagged, higher curves, of all descriptions
Such as nettled heretofore like thorns and brambles,
When one tried to rectify or make way through them,
Fiendlike yelled Big Medicine; his incantation
Urging all the deviltries of pains and torments
Which his brain's insanity could conjure for him.
Oh, it gives the torturers ghoulish pleasure
To work out all the hellishness of pent-up hatred.
How the fire, just now set, begins to brighten !
See the pitchy, resinous and fatal mixture
Of low term marks ! Suddenly they drench the fuel :
Now there rises, thunderous, from all the devils,
One long, mighty parting scream of execration.
Madly round the blazing pile the war-dance circles ;
How the flames illuminate the crowd of demons !
But the fire speedily burns lower, lower,
And its flames, diminishing, throw longer shadows,
Till at last it flickers down to glowing embers,
So the tribes-men lie about on skins and blankets ;
Peace pipes send their smoky clouds to chase the spectres,
And the embers die away to thin cold ashes.

Junior Reception.

Class of '90.

TUESDAY EVENING, JUNE 18, 1889.

Committee.

E. H. BEAZELL,
F. K. HOUSTON,
R. S. MERCUR,

J. B. CULLUM,
C. G. HOWE,
C. H. MILLER,

H. J. SHERMAN.

Patronesses.

MRS. R. A. LAMBERTON,
MRS. H. S. GOODWIN,
MRS. JACOB MOYER,

MRS. W. H. CHANDLER,
MRS. W. B. MYERS,
MRS. A. N. CLEAVER,

MRS. R. H. WILBUR.

Founder's Day.

THURSDAY, OCTOBER 10, 1889.

ADDRESS BY

PROF. HENRY COPPÉE, LL.D.,

Subject—"Health."

Founder's Day Ball.

Committee.

A. K. REESE, '89,
C. H. MILLER, '90,

E. H. COXE, '91,
J. Y. BASSELL, '92.

E. M. SAWTELLE, '93.

University Day.

JUNE 20, 1889.

Order of Exercises.

MUSIC.

Reading of Scriptures and Prayer.

BY THE RT. REV. M. A. DEWOLFE HOWE, D.D., LL.D.,
Bishop of the Diocese.

MUSIC.

Salutatory Oration, SAMUEL ERWIN BERGER.
"Copernicus."

MUSIC.

Oration, CHARLES PRENTICE TURNER.
"Immigration."

MUSIC.

Oration, FREDERICK LOUIS GRAMMER.
"Savonarola"

MUSIC.

Oration, EMIL DIEBITSCH.
"The Interocceanic Canal."

MUSIC.

Oration, WILLIAM DOLLOWAY FARWELL.
"Rienzi."

MUSIC.

Oration, with the Valedictory Address, JOHN LOCKETT.
MUSIC.

*Award of the Wilbur Scholarship to WALTON FORSTALL, first in rank in
Sophomore Class.*

The Wilbur Prizes were awarded as follows:

Freshman Class—Mathematics.

CHARLES MERRITT CASE, CHARLES OAKS WOODS.

Freshman Class—French.

JOHN YOUNG BASSELL, JR.

Freshman Class—German.

ALFRED EMORY LISTER.

Freshman Class—Free Hand Drawing.

ROBERT JONES SNYDER.

*Prizes for Machine Drawing, offered by Mr. Flather, Instructor in
Mechanical Engineering, awarded to*

ALFRED EMORY LISTER, ROBERT JONES SNYDER,
of the Freshman Class.

Conferring of Degrees.

	M.A.
FRANCIS JOSEPH CRILLY, B.A.,	JOHN DANIEL HOFFMAN, B.A.
	E.M.
RICHARD SINGMASTER BREINIG,	OTTO CORNELIUS BURKHARDT,
ALFRED ELI LEWIS, JR., B.S.,	WYNDHAM HARVEY STOKES, B.S.,
WADE HAMPTON WOODS, B.S., B.M.	
	B.A.
SAMUEL ERWIN BERGER,	EDGAR CAMPBELL,
WILLIAM DOLLOWAY FARWELL,	ARTHUR HUGH FRAYIER,
SYLVANUS ELMER LAMBERT.	
	B.S.
CHARLES ESTELL DICKERSON, JR.	
	C.E.
RALPH PUTNAM BARNARD,	HOLDEN WILLIAM CHESTER,
JUSTICE COX CORNELIUS,	CHARLES HERBERT DEANS,
EMIL DIEBITSCH,	LOUIS PROVOST GASTON, B.S.,
LIGHTNER HENDERSON,	CLARENCE WALTER HUDSON,
JOHN JOSEPH LINCOLN,	JOHN JOSEPH MARTIN,
ALBERT DANIEL OBERLY,	ALFRED WALTON STOCKETT,
LESTER CLARK TAYLOR,	AUGUSTUS THOMPSON THROOP,
EDWARD AUSTIN WRIGHT,	JOSEPH BODINE WRIGHT.
	M.E.
PEARCE ATKINSON,	GUSTAV AYRES,
ALBERT HARLAN BATES,	HERBERT MACKENZIE CARSON,
WILLIAM ALBERT CORNELIUS,	ARCHIBALD JOHNSTON,
JOHN MARTIN SHARPLESS KERLIN,	JOHN LOCKETT,
CHARLES WILLIAMS MOFFET,	JOHN THOMAS MORROW,
ROBERT HENRY EDDY PORTER,	ABRAHAM LINCOLN RODGERS,
CHARLES WILLIAM SCHWARTZ, JR.,	CHARLES PRENTICE TURNER.
	B.S.

(In Mining and Metallurgy.)

JAMES WILLLOUGHBY ANDERSON,	RICHARD SINGMASTER BREINIG,
OTTO CORNELIUS BURKHARDT,	CHARLES WILLIAM CORBIN,
JOHN WEBSTER DOUGHERTY,	RALPH MARSHALL DRAVO,
FREDERICK LOUIS GRAMMER,	GEORGE WENTZ HARRIS,
CONRAD EGBERT HESSE,	RICHARD HENRY MORRIS, JR.,
ARNOLD KARTHAUS REESE,	ARTHUR MOULT SMYTH,
CLARENCE WALKER,	HARRY RUSH WOODALL.
	A.C.
JOSEPH LEANDER BUDD,	FRANCIS JOSEPH CARMAN,
ERNEST HIPOLITE DU VIVIER,	MILTON HENRY FEHNEL, B.S.,
JOHN STOWER KELLOGG, JR.,	ARTHUR LONG,
CHARLES HENRY MILLER,	WILLIAM ELLIS MORRIS,
JOSEPH MICHAEL O'MALLEY,	WALTER EARLE WEIMER.

In Memoriam.

James Lorraine McLenegan, '86,

Born, Reading, Pa., October 2, 1862,

Died, Reading, Pa., May 25, 1889.

George Arthur Ruddle, '86,

Born, East Mauch Chunk, Pa., September 16, 1864,

Died, East Mauch Chunk, Pa., March 13, 1890.

Otway Owen Terrell, '87,

Born, Lynchburg, Va., February 13, 1863,

Died, Harrisburg, Pa., October 13, 1889.

Francis Duncan Campbell, '89,

Born, Morrow, O., May 26, 1868,

Died, El Paso, Tex., January 11, 1890.

Senior Banquet.

Class of '89.

CHRISTMAS HALL, FRIDAY, JUNE 14, 1889.

Toasts.

'EIGHTY-NINE,	L. C. TAYLOR.
THE FACULTY,	C. W. MOFFETT.
LACROSSE,	A. K. REESE.
OUR GENIUSES,	J. T. MORROW.
THE UNIVERSITY,	W. D. FARWELL.
ATHLETICS,	R. P. BARNARD.
THE LADIES,	R. H. E. PORTER.
THE GUILD,	W. E. MORRIS.
FOOT BALL,	J. W. DOUGHERTY.
REUNIONS,	A. LONG.
BASE BALL,	C. WALKER.
MESMERISM,	C. H. MILLER.
PAST AND FUTURE,	E. DIEBITSCH.

F. CARMAN, Toastmaster.

Committee.

C. W. CORBIN,
A. K. REESE,

J. W. O'MALLEY,
R. H. E. PORTER,

R. M. DRAGO.



Third Annual Banquet. Class of '91.

AT THE HOTEL ALLEN, ALLENTOWN, PA., MARCH 21, 1890.

Toasts.

OUR ATHLETES,	ALBAN EAVENSON.
THE '91 AND '92 CLUB,	CHARLES HENRY SIMPSON.
THE CLASS OF '91,	GEORGE SAMUEL HAYES.
OUR FOREIGN ELEMENT,	FREDERIC CURTISS LAUDERBURN.
CHARGE OF THE LIGHT BRIGADE,	EDWARD HAVILAND COXE.
A BALD-HEADED SIX AND ITS MEANING,	HARRY TIMOTHY MORRIS.
OUR ALUMNI,	JOSEPH SIMONSON LOCKWOOD.
RETROSPECTIVE AND PROSPECTIVE,	MURRAY BLACHLEY AUGUR.
HARRY WEED BIGGS, Toastmaster.	

Committee.

HARRY WEED BIGGS,	GEORGE BRIGGS,
JUAN DE LA ROSA BARRIOS,	EDWIN ADDAMS QUIER,
FRANK KING LESLIE,	ELIAS VANDER HORST.



Second Annual Banquet.

Class of '92.

AT THE HOTEL ALLEN, ALLENTOWN, PA., MARCH 7, 1890.

Toasts.

BEYOND THE ALPS LIES ITALY,	A. E. JESSUP.
FOOT BALL,	W. W. BLUNT.
THE LADIES,	A. S. MAURICE.
THE CLASS CELEBRITIES,	J. E. JONES.
THE RESORTS,	E. DODGE.
OUR TUG,	L. W. WALKER.
THE FLEDGELINGS,	C. K. SHELBY.
MY KINGDOM FOR A HORSE,	G. H. ATKINS.

R. J. SNYDER, Toastmaster.

Committee.

R. J. SNYDER,
R. MASSON,

J. Y. BASSELL,
M. MCCLUNG, JR.,

C. K. SHELBY.



First Annual Banquet.

Class of '93.

AT THE HOTEL ALLEN, ALLENTOWN, PA., NOVEMBER 2, 1889.

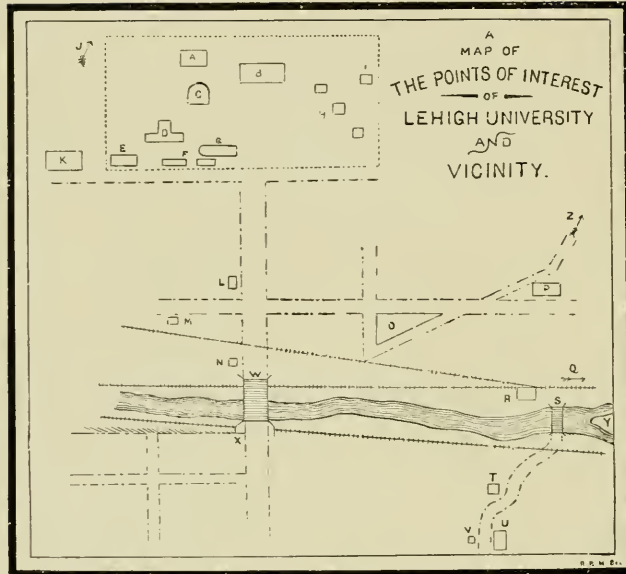
Toasts.

CLASS OF '93,	C. W. THROCKMORTON.
THE LADIES,	C. E. BELFIELD.
CLASS PHOTOS,	F. K. JENNEY.
OUR FOOT BALL TEAM,	H. B. WILKINS.
THE FACULTY,	A. A. GUILBERT.
CANE RUSH,	J. DE HAAN.
ODD NUMBERS,	C. W. GEARHART.
OUR COLORS,	H. W. KERN.
THE SOPHS,	J. C. RICHARDSON.
OUR PROSPECT,	J. O. MATHEWSON.
OUR FRIENDS, '91,	J. H. REBER.
E. M. SAWTELLE, Toastmaster.	

Committee.

E. M. SAWTELLE,
E. FARGASON,

C. P. HODGMAN,
J. P. CULBERTSON, JR.



NOTE.—We warn the Civils not to pony from this map, as the measurements have not been corrected.

The large dotted space at the top of the map is the "500 acres of land," illustrated elsewhere in this book.

- | | |
|---|--|
| A. Best place to get two absences a week. | N. Another Way-Side Inn. |
| B. "The Old Homestead." | O. Where the Hefty Club and little South B. boys meet to play marbles and base-ball. |
| C. Great Literary Centre. Wild Bear on exhibition within. | P. Lefevre and Zimmerman "have a mortgage on it." |
| D. Playhouse for "Billy's Boys." | Q. Way to Allentown. |
| E. Old Man Howard's special property. | R. Of especial interest at vacation time. |
| F. A "shocking" pair of buildings. | S. For those who have not one cent. |
| G. Of daily interest. (8.15 A.M.) | T. "A face in each window." |
| H. "Where the <i>powers that be</i> do dwell." | U. Still another Way-Side Inn. |
| I. Where Prof. D. takes love-sick ones "to gaze at the moon." | V. "The best hair cuts in town." (This ad. free, Sol.) |
| J. The way "to get in good spirits." | W. Popular Boulevard. |
| K. General playground. | X. Toll! Toll! |
| L. A Way-Side Inn. | Y. "An unbroken forest where wild cats roam." |
| M. Gas-House. | Z. Way to Bishopthorpe. |

Specifications.

Class of '91.

January 1, 1890.

MATERIALS.*

Republicans, 22.	Democrats, 14.	Prohibitionists, 2.
	Mugwumps, 3.	
Presbyterians, 8	Episcopalians, 6.	Methodists, 4.
Roman Catholics, 2.	Lutherans, 2.	Congregationalist, 1
Unitarian, 1.	Japanese National, 1.	Baptist, 1.
	No church, 16.	

DIMENSIONS.*

Average Age, 20 years, 9 months, 16¼ days.		
Oldest Man, 25 years.	Youngest Man, 18 years, 6 months, 14 days.	
Average Height, 5 feet, 9½ inches.		
Tallest Man, 6 feet.	Shortest Man, 5 feet, 4 inches.	
Average Weight, 139⅞ pounds.		
Heaviest Man, 175 pounds.	Lightest Man, 120 pounds.	

APPURTENANCES.

Moustaches, (<i>Predominant tendency—inward growth</i>), 11.*
Beards, (<i>Prevailing Color—Hazel</i>), 20.
Conditioned—At Entrance, 11*. At Present Date, 10.*

PRICE.*

Average cost per year, \$430.40.	
Highest Cost, \$1500.00.	Lowest Cost, \$275.00.

DETAILS.

Color of Hair— <i>From "Spotted, Black, Brown, Chestnuts to Moist."</i>
Color of Eyes—"Pale Cream, Pink, Bottle Green, Red, Blue."
Complexion—"Slick, Brown, Ashen, Grey, Black, Peachlike."
In Love, 17. Engaged, 5.

* Official.

A Synopsis of Replies

TO QUESTIONS ADDRESSED TO THE JUNIOR CLASS.

A review of college opinion on topics of general college concern, makes an interesting theme upon which to spend a leisure moment. Below are given the results of some inquiries into the subject, as deduced from opinions expressed by the Class of '91.

An evident spirit of dissatisfaction pervades the College atmosphere in connection with the abolishment of the 8.5 rule. Nearly two-thirds of '91's men favor the application of this rule and for reasons obvious enough. They claim that the rule is a stimulus to work and that its action is to do away with the farces known as examinations. The argument of those opposed is principally that they have never been benefited by the rule. One man claims that under the rule one is not liable to learn, as his ambition will be merely to make the mark.

But two men of the Class have a good word for the absence system. All others denounce it in no gentle terms. As a poor, contemptible farce, too childish for the primary school where, years ago, we used to ask, "Teacher, may I go out?" it undoubtedly ranks high in the student mind.

As to the light in which our Gymnasium system is held, the Class is about evenly divided. Many unconditionally favor the present system. Many others oppose the compulsion. For nearly all, the walk to and from the University Grounds furnishes much exercise; some cite the exercises in chapel as sufficient for all needs; while one man always steals his exercise from some one else.

Lehigh is in need of many additions from the popular point of view. A very large proportion of her men would have dormitories upon the grounds. A machine-shop, an electrical laboratory, elective courses, money, a progressive Faculty are pointed out as very desirable. By a close vote, with a difference of one man, coeducation is decided to be undesirable; but many had not thought the subject over.


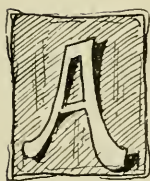
Undoubtedly the hardest term in the course, by our criterion, is the second of the Sophomore year, while the first of the Junior year follows closely. French and German are considered pleasanter than any other recitations, although "those that have been postponed" come in the category of the most enjoyable. A markedly favorite instructor is Mr. Meaker; and Messrs. Dashiell, Houskeeper, Huse, Merkle, Flather, Heinrich and Breckenridge are highly popular.

Happy moments come seldom for many Lehigh men, judging from their statement that this condition of affairs occurs when they loaf. Still we have beaten Lafayette often enough to please many who cite such instances as their happiest moments. One man was supremely happy when he got a "re" without paying the V.

The Class of '91, as seen in her own eyes, is a most cosmopolitan organization. Her prominent characteristics in her own judgment, include Lack of Class Spirit, Brains, Ability for Thought, Laziness, Absences, No Use for the Faculty, her Epitome Board, and above all her Jolly Good Fellowship.



A Championship Game.

ANOTHER item had just been added to the credit side of Lehigh's foot-ball account. Victors and vanquished had just left the field; the passing yells of the former echoing from our stone walls of learning, while the latter rode dismally from the spot consoling themselves with the various "ifs" which are so comforting on such occasions.

As the last small boy capered out of sight with a final whoop for the home team, a legal, decided voice might have been heard from behind the high board fence which separates Shanty Hill from the athletic grounds:—"Come, gentlemen, let us be brief, and we can have a fine game before supper." At this a row of heads appeared from behind the hemlock barrier; and following Robbie, Joe, Benny, H. Wilson, C-h-a-r-l-e-s, Billy, Mansfield, Severin and the rest climbed over the fence.

"Wait for me," piped up a melancholy little voice behind them, and C-h-a-r-i-e-s, the most kind-hearted as well as the *fattest* of the crowd, hurried back to help little "Cop" over the fence. The unfortunate *youth* had tangled his feet in some Greek roots; and Robert and Jim, being the only ones who knew about such things, had to come back and help him out.

Then it was discovered that in the excitement of the moment, no one had thought to ask Cullum for a ball. Benny at first refused to play unless the latest style of English Rugby foot-ball were used. But C-h-a-r-l-e-s, having produced a wooden ellipsoid from his pocket, and proved by a few equations which he wrote on Joe's back with a piece of chalk, that it was of the correct shape, Benny consented to play, "if the other fellows will promise not to get me clothes dirty, don't ye know."

So the teams lined up, with Myers for referee and umpire. The opposing team was indeed a wierd combination. Robbie's opponent (Robbie played quarter and captained the team, of course) was a tremendously complicated person, who never accomplished much, but made a great show. His full name was "*Absence System*." Mansfield, at the left end, had all he could do to keep a very exclusive, aristocratic looking individual called "*Eight-five Rule*," from getting into his territory. H. Wilson, our champion centre-rush, played his customary fine game against a small but lively *Error*. He constantly stopped the game, though, by calling "time" without any apparent reason. Severin played full-back but did not make much progress, for his opponent, *English*, nearly always downed him before he could kick. One other member of the opposing team deserves mention. She was the right guard, Billy's antagonist. She was very old apparently, and retired in the first half, pleading indigestion. Her name was *Mrs. Lucas*.

The game was thrilling while it lasted. C-h-a-r-l-e-s secured the ellipsoid on the first play and made tracks down the field in a remarkable manner, scoring a touch-down in the first three quarters of an hour. His path was afterward found to have been a *Spiral of Archimedes*.

They were about to line up again when Myers, at a signal from Robbie, disqualified the entire opposing team, and declared that *our* boys had won by a score of 104 to 0. "For," as he told Schutte next day, "it was plain enough that the other 100 points would have been made immediately, anyhow." Whereupon our team gave the yell, led by Severin; and, no enthusiastic spectators being present, carried Robbie off the field themselves. Then they all limped home, except C-h-a-r-l-e-s and Severin, who, arm in arm, strolled up to the gym. for a rubbing-down.

The teams were as follows :

L. U.	OPPONENTS.
ROBBIE,	"ABSENCE SYSTEM."
CHARLES,	'91.
BENNY,	OSTENTATION.
SEVERIN,	ENGLISH.
MANSFIELD,	"8.5 RULE."
EDMUND M.,	SILENCE.
H. WILSON,	"SMALL ERROR."
BILLY,	"MRS. LUCAS "
JOE,	PROGRESS.
EDWARD H.,	'90's EPITOME.
WILLIAM A.,	CAST IRON CURRICULUM.
HENRY,	I. DONNELLY.
MYERS, Referee and Umpire.	

Inter-Collegiate Athletic Association.

Officers.

1889.

F. S. MILLER, Princeton,	<i>President.</i>
F. R. COATES, Lehigh,	<i>Vice-President.</i>
D. C. BABBITT, Lafayette,	<i>Secretary.</i>
H. H. SANGER, Cornell,	<i>Treasurer.</i>

Inter-Collegiate Athletic Association of Pennsylvania.

Officers.

J. W. PANDER, Swarthmore,	<i>President.</i>
J. M. MITCHESON, University of Pennsylvania,	<i>Vice-President.</i>
F. R. COATES, Lehigh,	<i>Secretary.</i>
G. A. HARVEY, Lafayette,	<i>Treasurer.</i>

Executive Committee.

C. H. FRAZIER, U. of P., Chairman,	S. WALTON, Haverford,
L. AUDENREID, U. of P.,	J. W. PONDER, Swarthmore,
S. S. WALLACE, Dickinson.	

Lehigh University Athletic Association.

Officers.

F. R. COATES,	<i>President.</i>
E. VANDER HORST,	<i>Secretary.</i>
R. A. DOWNEY,	<i>Treasurer.</i>

Executive Committee.

Alumni Members.

PROF. E. H. WILLIAMS, JR., B.A., E.M., '75.
R. P. LINDERMAN, Ph.B., '84.

Under-Graduates.

A. K. REESE, '89,	E. VANDER HORST, '91.
F. R. COATES, '90,	R. A. DOWNEY, '92,
D. EMERY, '90,	C. W. THROCKMORTON, '93,
H. W. BIGGS, '91,	C. F. SEELEY.

Spring Meeting

OF THE

Lehigh University Athletic Association.

ON THE ATHLETIC GROUNDS, MAY 10, 1889.

EVENTS.	WINNER.	RECORD.
100 Yards Dash,	A. W. STOCKETT, '89,	10 3-5 sec.
220 Yards Dash,	A. W. STOCKETT, '89,	24 3-5 sec.
440 Yards Dash,	J. J. LINCOLN, '89,	56 sec.
Half Mile Run,	J. J. LINCOLN, '89,	2 min. 28 sec.
One Mile Run,	E. W. PRATT, '90,	5 min. 18 sec.
120 Yards Hurdle,	W. T. PATTERSON, '92,	18 3-5 sec.
One Mile Walk,	F. R. COATES, '90,	7 min. 49 sec.
Two Mile Bicycle,	J. S. RIEGEL, '90,	7.19 4-5.
Running High Jump,	T. MARCH, (Lafayette),	4 ft. 11 1-2 in.
Pole Vault,	H. COATES, (Lafayette),	8 ft. 5 in.
Running Broad Jump,	T. MARCH, (Lafayette),	19 ft. 5 1-2 in.
Putting Shot,	C. H. DETWILER, '90,	35 ft. 3 in.
Throwing Hammer,	C. H. DETWILER, '90,	83 ft. 8 in.

Best Lehigh Records.

EVENT.	HOLDER.	DATE.	RECORD.
<i>100 Yards Dash,</i>	M. M. DUNCAN, '80,	May 12, 1879,	10 1-5 sec.
<i>220 Yards Dash,</i>	M. M. DUNCAN, '80.	May 3, 1879,	23 1-4 sec.
<i>440 Yards Dash,</i>	C. M. TOLMAN, '85,	May 3, 1884,	54 4-5 sec.
<i>Half Mile Run,</i>	H. TOULMIN, '86,	May 19, 1883,	2 min. 8 1-2 sec.
<i>One Mile Run,</i>	C. H. MILLER, '88,	May 14, 1887,	4 min. 52 sec.
<i>Half Mile Walk,</i>	F. R. COATES, '90,	Feb. 28, 1890,	3 min. 39 sec.
<i>One Mile Walk,</i>	F. R. COATES, '90,	May 18, 1889,	7 min. 37 sec.
<i>Two Mile Walk,</i>	L. O. EMMERICH, '82,	May 3, 1879,	17 min. 2 sec.
<i>Three Mile Walk,</i>	R. B. READ, '79,	May 26, 1877,	27 min. 46 sec.
<i>120 Yards Hurdle,</i>	R. F. MORROW, '82,	May 14, 1881,	18 sec.
<i>2 Mile Bicycle Race,</i>	J. S. RIEGEL, '90,	Oct. 12, 1889,	6 min. 28 sec.
<i>Standing High Jump,</i>	W. C. RIDDICK, '90,		4 ft. 8 in.
<i>Standing Broad Jump,</i>	W. J. McNULTY, '80,	Oct. 11, 1876,	9 ft. 10 in.
<i>Running High Jump,</i>	O. C. BURKHART, '88,		5 ft. 3 3-4 in.
<i>Running Broad Jump,</i>	B. E. RHOADS, '85,	Oct. 27, 1883,	18 ft. 7 1-2 in.
<i>Throwing Hammer,</i>	C. H. DETWILER, '90,	May 18, 1889,	83 ft. 8 in.
<i>Putting Shot, (16 lbs.)</i>	J. W. LADDO, '87,	May 15, 1886,	35 ft. 9 in.
<i>Pole Vault,</i>	S. D. WARRINER, '90,	May 18, 1889,	9 ft. 10 in.
<i>Running High Kick,</i>	R. L. JONES, '89,	April 2, 1887,	8 ft. 8 in.
<i>Fence Vault,</i>	T. W. BIRNEY, '85,	April 11, 1885,	6 ft. 7 in.

Intercollegiate Records.

<i>100 Yards Dash,</i>	10 1-5 sec.
<i>220 Yards Dash,</i>	22 2-5 sec.
<i>Half Mile Run,</i>	2 min. 2 sec.
<i>440 Yards Dash,</i>	50 sec.
<i>One Mile Run,</i>	4 min. 29 4-5 sec.
<i>120 Yards Hurdle,</i>	16 4-5 sec.
<i>220 Yards Hurdle,</i>	26 2-5 sec.
<i>Mile Walk,</i>	7 min. 6 4-5 sec.
<i>Running Broad Jump,</i>	22 ft. 6 in.
<i>Running High Jump,</i>	5 ft. 11 3-4 in.
<i>Putting Shot,</i>	40 ft. 9 1-2 in.
<i>Pole Vault,</i>	10 ft. 5 1-2 in.
<i>Throwing Hammer,</i>	98 ft. 6 in.
<i>Two Mile Bicycle Race,</i>	6 min. 4-5 sec.

Fourth Annual Field Meeting
OF THE
Intercollegiate Athletic Association of Penna.
WEST PHILADELPHIA, MAY 18, 1889.

EVENT.	WINNER.		RECORD.
<i>100 Yards Dash,</i>	B. LANDRETH,	Univ. of Penna.,	10 3-5 sec.
<i>220 Yards Dash,</i>	J. VERNON,	Swarthmore,	23 3-4 sec.
<i>440 Yard Dash,</i>	C. FRAZIER,	Univ. of Penna.,	56 sec.
<i>Half Mile Run,</i>	E. CHURCH,	Univ. of Penna.,	2 min. 4 3-4 sec.
<i>One Mile Run,</i>	J. WEST,	Univ. of Penna.,	4 min. 39 sec.
<i>120 Yards Hurdle,</i>	ROBERTS,	Swarthmore,	17 4-5 sec.
<i>220 Yards Hurdle,</i>	J. VERNON,	Swarthmore,	28 sec.
<i>One Mile Walk,</i>	F. R. COATES,	Lehigh,	7 min. 37 sec.
<i>Putting Shot,</i>	LEWIS,	Swarthmore,	34 ft. 8 in.
<i>Throwing Hammer.</i>	A. BOWSER,	Univ. of Penna.,	83 ft. 11 in.
<i>Two Mile Bicycle,</i>	B. KEEN,	Univ. of Penna.,	6 min. 13 1-5 sec.
<i>Running High Jump,</i>	E. CHURCH,	Univ. of Penna.,	5 ft. 7 1-4 in.
<i>Running Broad Jump,</i>	C. BONSALL,	Univ. of Penna.,	20 ft. 1 in.
<i>Pole Vault,</i>	S. D. WARRINER,	Lehigh,	9 ft. 10 in.
<i>Tug-of-War,</i>		Swarthmore,	4 in.



C. H. Detwiler.	F. R. Coates.	W. W. Blunt.	D. Balliet.	C. Walker.
W. C. Riddick.	J. B. Cullum.	S. D. Warriner.	P. J. Dashiell.	G. C. Hutchinson.
A. K. Reese.	W. S. Cope.	D. Emery.	J. P. Rafferty.	R. A. Downey.

Foot-Ball.

The Team,* 1889.

D. BALLIET, '93, $8\frac{1}{2}$.

F. R. COATES, '90, 11,

C. H. DETWILER, '90, 12,

J. P. RAFFERTY, '91, 11,

W. W. BLUNT, '93, $6\frac{1}{2}$,

D. EMERY, '91, $9\frac{1}{4}$,

A. K. REESE, '89, 8,

C. WALKER, '89, $12\frac{3}{4}$,

S. D. WARRINER, '90, $12\frac{1}{4}$,

P. J. DASHIELL, P.G., $11\frac{3}{4}$,

G. C. HUTCHINSON, '93, 13,

Substitutes.

W. C. RIDDICK, '90, $4\frac{1}{2}$,

R. S. MERCUR, '90, 5.

R. A. DOWNEY, '92, $3\frac{1}{2}$,

L. W. WALKER, '92, $2\frac{1}{2}$.

W. S. COPE, '90, $1\frac{1}{4}$.

The following men also played with the team :

R. D. FLOYD, '93, 1,

M. MCCLUNG, '93, $\frac{1}{4}$,

J. W. DOUGHERTY, '89, 2,

G. AYRES, '89, 1,

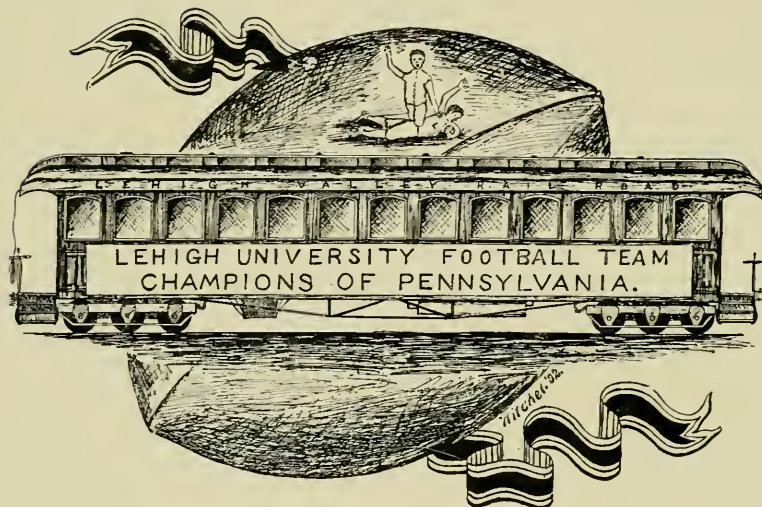
S. S. MARTIN, '90, 3,

L. H. ELY, '91, $\frac{1}{2}$,

M. P. RANDOLPH, '93, $1\frac{1}{2}$.

G. S. MISH, '91, 1.

* The figures following names denote the number of games in which each man took part.



Total Scores, 1889.

PLACE.	DATE.	OPPONENT	SCORES.	
			L. U.	OPPONENTS.
Princeton, N. J.,	Oct. 5,	PRINCETON,	0	16
South Bethlehem.	Oct. 10,	PRINCETON,	4	16
South Bethlehem,	Oct. 16,	HAVERFORD,	60	0
Philadelphia,	Oct. 19,	UNIV. OF PENNA.,	4	6
South Bethlehem,	Oct. 30,	LAFAYETTE,	16	10
New York,	Nov. 2,	COLUMBIA,	51	6
South Bethlehem,	Nov. 4,	STATE COLLEGE,	106	0
Easton,	Nov. 16,	LAFAYETTE,	6	6
South Bethlehem,	Nov. 20,	UNIV. OF PENNA.,	8	0
Springfield, Mass.,	Nov. 22,	WESLEYAN,	11	11
Annapolis, Md.,	Nov. 28,	NAVAL ACADEMY,	26	6
Washington, Md.,	Nov. 29,	JOHNS HOPKINS,	40	0
Charlottesville, Va.,	Nov. 30,	UNIV. OF VIRGINIA,	26	12
Total,			358	89



Games Played.

1889.

			SCORE.
Allentown vs. Lehigh,	March 23,	South Bethlehem,	6-1.
Allentown vs. Lehigh,	March 27,	Allentown,	2-3.
Haverford vs. Lehigh,	April 6,	South Bethlehem,	15-24.
Reading vs. Lehigh,	April 24,	South Bethlehem,	13-4.
Trinity vs. Lehigh,	May 1,	South Bethlehem,	14-19.
Cornell vs. Lehigh,	May 3,	Ithaca, N. Y.,	22-1.
Cornell vs. Lehigh,	May 4,	Ithaca, N. Y.,	18-11.
Univ. of Pa. vs. Lehigh,	May 10,	Philadelphia,	7-7.
Pottstown vs. Lehigh,	May 11,	Pottstown,	14-4.
Lafayette vs. Lehigh,	May 18,	South Bethlehem,	6-8.
Lafayette vs. Lehigh,	May 25,	Easton,	16-2.
Univ. of Pa. vs. Lehigh,	May 28,	South Bethlehem,	10-0.

Opponents, 143. Lehigh, 84.



R. W. Lawder, E. O. Robinson, S. D. Warriner, R. A. Downey, C. Walker,
 J. H. Tonkin, H. W. Biggs, M. B. Tate, G. K. Anderson,
 M. McClung.

Base - Ball.

The Team, 1889.

M. McCLUNG, '92, c.

S. D. WARRINER, '90, p.,

F. CARMAN, '89, p.,

G. E. LEFEVRE, '90, p.,

B. E. WOODCOCK, '92, p.,

W. BUTTERWORTH, '89, p.

H. W. BIGGS, '91, s. s.,

R. A. DOWNEY, '92, 1 b.,

E. O. ROBINSON, '91, 2 b.,

G. K. ANDERSON, '91, 3 b.,

R. A. LAWDER, '92, r. f.,

J. H. TONKIN, '92, c. f.,

C. WALKER, '89, l. f.

Class Teams.

'89.

J. W. DOUGHERTY, c.,	R. H. PORTER, p.,
C. H. DEANS, s. s.,	C. W. MOFFET, 1 b.,
C. WALKER, 2 b.,	A. K. REESE, 3 b.,
C. W. HUDSON, r. f.,	E. DIEBITSCH, c. f.,
C. E. DICKERSON, l. f.	

'90.

W. C. RIDDICK, c.,	W. C. SHOEMAKER, p.,
A. CARDENAS, s. s.,	J. T. HOOVER, 1 b.,
J. E. LITCH, 2 b.,	J. G. FLECK, 3 b.,
F. R. COATES, r. f.,	F. E. FISHER, c. f.,
S. D. WARRINER, l. f.	

'91.

H. W. BIGGS, c.,	M. B. TATE, p.,
C. J. COLL, s. s.,	E. O. ROBINSON, 1 b.,
J. M. BEAUMONT, 2 b.,	G. K. ANDERSON, 3 b.,
H. G. LAMBERTON, r. f.,	A. M. MASSER, c. f.,
G. S. MISH, l. f.	

'92.

M. MCCLUNG, c.,	B. E. WOODCOCK, p.,
W. J. FLOYD, s. s.,	R. A. DOWNEY, 1 b.,
J. H. TONKIN, 2 b.,	H. HOWARD, 3 b.,
G. W. B. ASMUSSEN, c. f.,	R. A. LAWDER, c. f.,
J. E. JONES, l. f.	

Class Games.

DATE.	CLASS.	SCORE.
March 26, 1889,	'89-'90,	17-16.
April 10, 1889,	'91-'92,	15- 8.



Games Played.

1889.

			SCORE.
Johns Hopkins vs. Lehigh,	April 27,	South Bethlehem,	6-0.
Philadelphia vs. Lehigh,	April 30,	South Bethlehem,	7-1.
Rutgers vs. Lehigh,	May 8,	South Bethlehem,	3-12.
Princeton vs. Lehigh,	May 11,	Princeton, N. J.,	6-0.
C. C. N. Y. vs. Lehigh,	May 18,	South Bethlehem,	0-11.
Harvard vs. Lehigh,	May 25,	South Bethlehem,	0-3.
Brooklyn vs. Lehigh,	May 30,	South Bethlehem,	6-4.

Opponents, 28 points; Lehigh, 31 points.

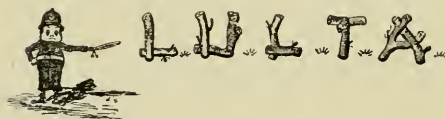
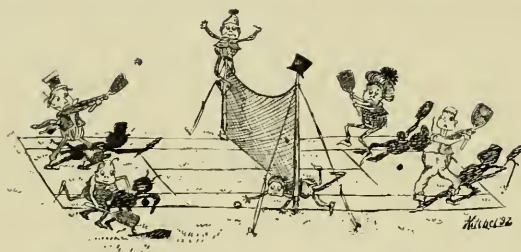


T. A. Straub,	J. T. Morrow,	F. L. Grammer,	J. B. Buckley,	C. H. Boynton.
H. Denman,	W. S. Cope,	A. C. Howard,	R. P. Barnard,	I. W. Anderson,
	J. J. Lincoln,	A. K. Reese,	E. Vander Horst,	G. S. Mish.

Lacrosse.

The Team, 1889.

J. B. BUCKLEY, '91, goal.
G. B. ZAHNIZER, '91, goal.
R. P. BARNARD, '89, point.
F. L. GRAMMER, '89, cover point.
J. T. MORROW, '89, first defence.
J. G. FLECK, '90, first defence.
G. S. MISH, '91, second defence.
H. DENMAN, '92, third defence.
J. J. LINCOLN, '89, centre.
C. H. BOYNTON, '89, third attack.
T. A. STRAUB, '90, third attack.
E. VANDER HORST, '91, second attack.
H. C. BANKS, '92, first attack.
W. S. COPE, '90, first attack.
J. W. ANDERSON, '89, second home.
A. K. REESE, '89, first home.



J. W. ANDERSON,
M. B. AUGUR,
A. C. HOWARD,

President,
Vice-President,
Secretary and Treasurer.

Executive Committee.

J. W. ANDERSON, A. C. HOWARD, C. M. LOESER.

Members.

'89.

J. W. ANDERSON,	A. K. REESE,	C. WALKER,
T. C. J. BAILEY,	F. R. BARRETT,	A. CARDENAS,
J. B. CULLUM,	W. S. COPE,	R. GOODMAN,
F. K. HOUSTON,	T. S. LOESER,	W. C. PERKINS,
E. J. PRINDLE,	H. J. SHERMAN,	F. DU P. THOMSON.

'91.

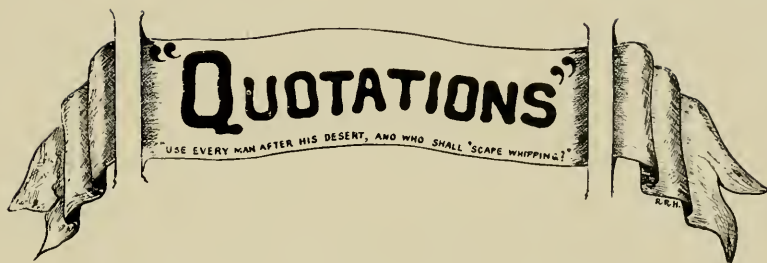
M. B. AUGUR,	E. H. COXE,	P. DRAYTON,
W. FORTSALL,	H. M. KNAPP,	C. M. LOESER,
A. L. MCCLURG,	J. A. MCCLURG,	P. M. PAINE,
E. A. QUIER,	C. H. SIMPSON,	E. VANDER HORST,
	A. C. HOWARD.	

'92.

H. E. ATKINS,	G. H. ATKING,	J. Y. BASSELL, JR.,
W. Y. BRADY,	A. E. JESSUP,	W. E. JOHNSON,
R. S. KITCHEL,	J. T. LOOMIS,	A. S. MAURICE,
M. MCCLUNG,	H. ORTH, JR.,	E. H. SHAW,
	C. K. SHELBY.	

'93.

S. P. CURTIS,	F. P. FARRAR,	H. HOWARD, JR.,
R. G. HUBBY,	L. M. HUBBY,	G. C. HUTCHINSON,
E. M. SAWTELLE,	C. W. THROCKMORTON,	W. J. WEATHERBY.



" Hair cut, sir ? "

WELSH, '93.

" Not pretty, but massive."

DETWILER, '90.

" A bevy of fair women."

BISHOPTHORPE.

" Why, what an ass am I ! "

JOHNSON, '92.

" A little peach of emerald hue."

G. H. ATKINS, '92.

" We are fair birds of a feather."

WENDLE, '91, and KENNEDY, '91.

*" What's in a name ? "

LEFEVRE, '91.

" My only books were women's looks,
And folly's all they've taught me."

REETS, '91.

" Gone, but not forgotten."

EASTWICK, '92.

" Have you seen our little cherub ? "

" PLUG " RICHARDS.

" Born and forgot."

LABROT, '92.

" Through thick and thin."

DR. CHANDLER'S EVERLASTING PILL.

" Whose drink was only from the liquid brook."

STRAW, '93.

" Plumed with conceit, he calls aloud.

J. P. RAFFERTY, '92.

* We have found out, but Lefèvre threatens to "lick the whole Board" if we tell.

" 'Tis English, quite English, you know."

FARRAR, '93.

"Every one is as God made him, and often a great deal worse."

WEST, '91.

"One whom the music of his own virgin tongue
Doth ravish like enchanting harmony."

McCLUNG, '92.

"There was a laughing devil in his sneer
That raised emotions both of rage and fear."

P. A. LAMBERT.

"The things we know are neither rich nor rare,
But wonder how the devil they got there."

FLUNKERS, '90, '91, '92, '93.

"Conceited men are but little boys in pants."

THROCKMORTON, '93.

"Where he falls short 'tis Nature's fault alone;
Where he succeeds, the merit's all his own."

T. C. RAFFERTY, '91.

"Those legs, ah, those legs!"

WARRINER, '90.

"When he essays to sing e'en the owls listen."

WALKER, '89.

"Small hubs have grace,
Great weeds grow apace."

BALLIET, '93.

"Of manners gentle, of affections mild;
In wit a man, simplicity—a child."

ALCOTT, '90.

"A chip of the old block."

DOOLITTLE, '91.

"I am none of those who break jests in company, and make
repartees."

LOCKWOOD, '91.

"Gird up thy loins as a man."

DASHIELL, as anchor.

"Pigs may whistle, but they have an ill mouth for it."

BARRELL, '92.

"Then sighing thus; And am I now three-score?"

D. G. HEARNE, '90.

*"Just put this down—we will have more back-bone to meet
the Class of '93."

'92's FRESHMAN HISTORY.

* The reader is referred to the events of a year, especially to the little unpleasantness on Oct. 4, 1888, and '92 is respectfully advised to elect Mr. DuBois permanent class prophet.

- "He can tell a radius vector from a geometric sector,
And tell the moon's diameter in feet.
He can make a speech in Spanish, write an essay in Danish,
But he cannot tell a cabbage from a beet."
FORSTALL, '91.
- "And he took a child and set him in the midst of them."
N. BANKS, '92.
- "A lion among ladies is a terrible thing."
DRAYTON, '92.
- "The Innocents abroad."
'93.
- "He's tough, ma'am—tough, and devilish sly."
TAYLOR, '93.
- "A jolly place in times of old."
CHARLIE'S.
- "I have been a wicked creature."
SCHUTTE, '93.
- "Small potatoes, and few in a hill."
'92.
- "A wit among dunces, and a dunce among wits."
HOWARD, '92, '93.
- "Go, little book; God send thee good passage."
EPITOME.
- "Can any mortal mixture of Earth's mould
Breathe such divine, enchanting ravishment."
MUSICAL ORGANIZATIONS.
- "He knew himself to sing, and build the lofty rhyme."
T. C. J. BAILEY, '90.
- "I cannot tell how the truth may be,
I tell the tale as it was told to me."
JUHLE, '91.
- "A man of forecast and of thrift,
And of a shrewd and careful mind
In this world's business, but inclined
Somewhat to let the next world drift."
HOBBS, '92.
- "I have a beard coming."
LOESER, '92.
- "I am sick when I look on thee."
HOMANS, '92.
- "Full well they laughed with counterfeited glee
At all his jokes, for many a joke had he."
DUTCHIE'S DARLINGS.

- "A poet, too, there was, whose verse
Was tender, musical and terse" MACAULEY, '92.
- "That book of gems ! that book of gold !
Of wonders many and manifold." THE REGISTER.
- The South Bethlehem Star.* KITCHEL, '93.
- A Week's Sport.* CULLUM, '90
- "A narrow compass, and yet there
Dwelt all that's good, all that's fair." (?) THE BETHLEHEMS.
- "The bright consummate flower." BUCHER, '92.
- "Speak gently, 'tis a little thing." N. BANKS, '92.
- "Liniment, ginger, nutmegs and cloves,
And that gave me my jolly red nose." "MIKE, '92.
- "It would talk,
Lord ! how it talked !" PROF. H-D-.
- "Three merry boys, three merry boys,
And three merry boys are we,
As ever did sing in a hempen string
Under the gallows-tree." TONKIN, LLOYD, TAYLOR.
- "There came to the beach a poor exile of Erin." BEAUMONT, '91.
- "Courage is half the battle." EMERY, 90; LEFÉVRE, '91.
- "A despot always has some good moments." "PREX."
- "A company of tyrants is inaccessible to all seductions." THE FACULTY.
- "It is not well that man should be alone." SANBORN, '90.
- "O love, love, love !
Love is like a dizziness ;
It winna let a poor body
Gang about his bizziness." DRAYTON, '92.

- "Of all the girls that e'er were seen,
There's none as fine as N——e!"
EAVENSON, '91.
- "He that imposes an oath makes it,
Not he that for convenience takes it."
CARMEN, '93.
- "A monster serpent, full of wild terrors and to slaughter bred."
ABSENCE SYSTEM.
- "It needs some sense to play the fool."
PRATT, '90.
- "Always nearly but never quite."
SHELLENBERGER, (on receipt of 5.9 in Calculus.)
- "'Tis ever common that men are merriest when afar from home."
MISH, '91.
- "Better untaught than ill-taught."
'90 CIVILS.
- "He that sips of many arts drinks of none."
LANGDON, '9(?)
- "Poets are born, but orators made."
NEUMEVER, '90.
- "Assume a virtue if you have it not."
GOODMAN, '90.
- "The hour's come, but not the man."
BECK, '92.
- "Who loved not wisely but too well."
WEST, '91.
- "Authors ought to be read, not heard."
BAILEY, '90.
- "A book's a book, although there's nothing in it."
H. S. JACOBY.
- "Critics are cut-throat bandits in the paths of fame."
BURR EDITORS.
- "Blest be man who first invented sleep."
FISHER, '90, LYNCH, '91.

THE EDITORS:

(*What we think about ourselves.*)

- "O, though oft oppressed and lonely,
All my fears are laid aside,
If I but remember only
Such as these have lived and died."
"CHAPPIE" MORRIS.

"A man who's not afraid to say his say,
Though a whole town's against him."

"BUCK" HAYES.

"A modest youth with cool reflection crowned."

"MAY" PAINE.

"I never dare to write as funny as I can."

"BECKY" LAUDERBURN.

"All the perfumes of Arabia will not sweeten this little hand."

"MIKE" SOHON.

*"Remuda de pasturaje hace becerros gordos."

"DAGO" BARRIOS.

"Minerva's bird upon my chair shall never fold her pinions,
And Momus' mask I scorn to wear among her rapid minions."

"JAZEE" MILLER.

"O thou art fairer than the evening air,
Clad in the beauty of a thousand stars!"

"TEDDY" HILLMAN.

"I awoke one morning (about 12.30) and found myself famous."

"DUTCH" COXE.

* A change of pasture makes fat calves.

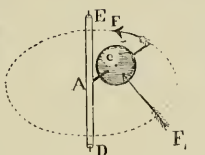


VIVIDLY DO WE REMEMBER,

WHEN WE JUNIORS FIRST BECAME

IT WAS NO LATER THAN SEPTEMBER

WHAT WAS THEN OUR GREATEST PAIN, TO

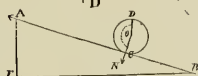
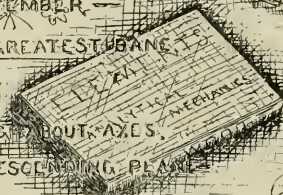


BALLS REVOLVING ABOUT AXES.

CYLINDER DESCENDING PLANE

THEORIES AND UNPROVED FACTS - THESE

PONDERED WE WITH MIGHT AND MAIN.



PONDERED WE, BUT LEARNED WE NOTHING

SAVE AS PARROTS LEARN - BY ROPE

POPPY-COCK SO FLAGRANT, LEATHING

AS THE BOURS ITS SENSE REMOTE



DEVOLSON WOOD, HOW MUCH WE OWE THEE

FOR THY PRODIGES OF THOUGHT!

EASIER PATHS TO LEARNING KNOW WE

BY THINE "ANALYTICS" BROUGHT.

$$V = V_0 - 2gA \tan \alpha + \frac{g}{2} \tan^2 \alpha$$

TO US REASON'S OUT OF FASHION.

SINCE COMMITTING SERVES AS WELL

LEARN WE NOW WITH GREATEST PASSION.

AND IN MEMORY'S ARTS EXCEL.



$$\pi = 3.14159$$

JOHN Z. MILLER

A Record of College Happenings

FOR THE YEAR 1889.

- Athletic Association, Lehigh University, Sixth Winter Meeting, March 2.
 Athletic Association, State Inter-Collegiate, Election, Continental Hotel, Philadelphia, March 2.
 Athletic Association, State Inter-Collegiate, Meeting, in Philadelphia, May 8.
 Athletic Association, Lehigh University, Spring Meeting, May 10.
 Athletic Association, Inter-Collegiate, Meeting in New York, May 25.
 Athletic Association, Lehigh University, Constitution Adopted November 15.
 Cane Rush, '93-'92, Athletic Grounds, October 4.
 Class Supper, '92, at Easton, February 8.
 Classical Club, Election, March 2.
 Class Supper, '90, at Easton, March 5.
 Class Supper, '93, at Allentown, November 2.
 Electrical Engineering Society, Election of Officers, February 1.
 Engineering Society, Election of Officers, May 13.
 Engineering Journal, Election of Editors, May 13.
 Electrical Engineering Society, Election of Officers, Sept. 19.
 Epitome Board, Class of '91, Organized May 24.
 Epitome, Class of '90, Published April 29.
 Foot-Ball, Cornell refuses to play October 26.
 Lacrosse Association, Inter-Collegiate Meeting, in Sturtevant House, New York, February 2.
 Lawn Tennis Association Lehigh University, Election of Officers, September 16.
 Music, Entertainment L. U. Organizations, February 27.
 Music, Entertainment L. U. Organizations, with Mustard and Cheese, April 27.
 Natural History Club, Organized October 18.
 Phi Beta Kappa, Election of Officers, February 21.
 Photograph, Class of '93, secured September 19.

Historical Memorabilia.

LEHIGH UNIVERSITY incorporated by the Legislature of Pennsylvania in 1866. Founder, Asa Packer. Christmas Hall first used as a building for recitations, chapel and dormitories. Competition Scholarships were awarded from 1866 to 1870; Foundation Scholarships from 1867 to 1879. The first literary society, the Junto, established in 1868. Observatory erected by R. H. Sayre, Esq., in 1869. Packer Hall completed in 1869. In 1871 tuition was made free and scholarships were annulled. Chemical Society established in 1871. Wilbur Scholarship and Engineering Society established in 1872. Saucon Hall erected in 1873. Athletic Association founded 1874. First *Epitome*, issued by the Class of 1878, appeared in 1875. Library erected 1878. The *Burr* established 1881. First Junior Oratorical Contest 1883. Gymnasium opened 1883. Laboratory completed 1885. Wilbur Prize established 1887. Packer Memorial Church completed 1887. Electrical Engineering Society established in 1887. The Henry S. Haines Memorial Scholarship established in 1889.

Presidents of the University.

HENRY COPPÉE, LL.D.,	1865-1875.
JOHN M. LEAVITT, D.D.	1875-1880.
ROBERT A. LAMBERTON, LL.D.,	1880.

Valedictorians.

1869. M. Rock.	1876. C. L. Taylor.	1883. A. E. Forstall.
1870. W. R. Butler,	1877. G. M. Heller.	1884. A. P. Smith.
1871. W. H. McCarthy.	1878. R. H. Read.	1885. I. A. Heikes.
1872. G. P. Bland.	1879. R. H. Tucker.	1886. S. J. Harwi.
1873. W. M. Scudder.	1880. T. H. Hardecastle.	1887. M. B. Fehnel.
1874. W. D. Hartshorne.	1881. L. Stockton.	1888. S. W. Frescoln.
1875. E. H. Williams, Jr.	1882. C. C. Hopkins.	1889. J. Lockett.

Salutatorians.

1869. J. M. Thome.	1876. R. W. Mahon.	1883. P. A. Lambert.
1870. W. G. Clapp.	1877. L. T. Wollé.	1884. L. B. Semple.
1871. F. L. Clerc.	1878. H. F. J. Porter.	1885. W. H. Cooke.
1872. F. R. C. Degenhart.	1879. J. H. Paddock.	1886. H. Toulmin.
1873. R. B. Claxton.	1880. F. P. Spalding.	1887. H. H. Stock.
1874. H. C. Wilson.	1881. B. F. Haldeman.	1888. A. G. Kau.
1875. E. W. Sturdevant.	1882. E. H. Lawall.	1889. S. E. Berger.

Wilbur Scholars.

1874. W. D. Hartshorne.	1880. M. M. Duncan.	1886. J. K. Surls.
1875. A. E. Meaker.	1881. A. P. Crilly.	1887. H. S. Fisher.
1876. C. L. Taylor.	1882. C. C. Hopkins.	1888. S. W. Frescoln.
1877. H. S. Jacoby.	1883. P. A. Lambert.	1889. J. Lockett.
1878. L. J. Barr.	1884. L. B. Semple.	1890. A. H. Van Cleve.
1879. R. H. Tucker.	1885. W. H. Cooke.	1891. W. Forstall.

Wilbur Prize Men.

1880. S. E. Berger.	1891. D. A. Usina.	1892. C. O. Woods.
1890. G. E. Wendle.	1891. J. Z. Miller.	1892. J. Y. Bassell, Jr.
1891. W. Forstall.	1891. R. Schmitz.	1892. A. E. Lister.
1891. B. M. Homans.	1892. C. M. Case.	1892. R. J. Snyder.

Junior Oratorical Prizes.

FIRST.	SECOND.	THIRD
1884. A. P. Smith.	H. H. Hillegass.	
1885. H. L. Bowman.	J. H. Wells.	
1886. C. A. Luckenbach.	W. P. Taylor.	
1887. G. T. Richards.	H. S. Fisher.	
1888. A. G. Rau.	G. R. Baldwin.	E. B. Wiseman.
1889. W. D. Farwell.	P. Atkinson.	J. T. Morrow.
1890. H. A. Foering.	R. E. Neumeyer.	F. J. Prindle.

Presidents of the Alumni Association.

1876. C. E. Donaldson.	1880. C. W. Haines.	1884. E. H. Williams, Jr.
1877. C. E. Donaldson.	1881. C. L. Taylor.	1885. E. H. Williams, Jr.
1878. W. R. Butler.	1882. R. W. Mahon.	1886. W. M. Scudder.
1879. H. S. Drinker.	1883. H. F. J. Porter.	1887. W. M. Scudder.

Presidents of the Engineering Society.

1872. R. B. Claxton, '73.	1876. L. T. Wolle, '77.	1885. H. G. Reist, '86.
1873. A. A. Herr, '74.	1881. L. O. Emmerich, '82.	1886. J. W. LaDoo, '87.
1874. A. E. Meaker, '75.	1882. N. O. Goldsmith, '83.	1887. G. H. Davis, '88.
1875. E. H. Williams, Jr., '75.	1884. F. B. Petersen, '85.	

Presidents of the Athletic Association.

SINCE THE REORGANIZATION.		
1884. C. Whitehead, '85.	1887. G. H. Davis, '88.	1889. F. R. Coates, '90.
1885. C. E. Clapp, '86.	1887. W. Bradford, '88.	
1886. R. K. Polk, '87.	1888. G. Ayres, '89.	

Base Ball Captains.

1883. J. McK. Graeff, '85.	1886. B. A. Cunningham, '87.	1889. W. Butterworth, '89.
1884. C. A. Junken, '85.	1887. B. A. Cunningham, '87.	1889. C. Walker, '89.
1885. H. L. Bowman, '85.	1888. H. H. McClintic, '89.	1890. H. W. Biggs, '91.

Foot Ball Captains.

1884. J. S. Robeson, '86.	1887. W. Bradford, '88.	1889. S. D. Warriner, '90.
1885. H. W. Frauenthal, '86.	1887. C. W. Corbin, '89.	1890. D. Emery, '91.
1886. W. R. Pierce, '87.	1888. C. Walker, '89.	

Lacrosse Captains.

1886. C. P. Coleman, '86.	1887-1890. A. K. Reese, '89.
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Epitome Editors.

	1878.	
H. F. J. Porter,	M. P. Paret,	F. P. Howe.
	1879.	
M. M. Duncan,	J. H. Paddock,	H. R. Linderman, Jr.
	1880.	
F. P. Spalding,	W. H. Bradbury,	F. C. Wooten.
	1881.	
B. F. Haldeman,	F. S. Phillips,	R. S. Lee, Jr.
	1882.	
C. C. Hopkins,	J. D. Ruff,	J. W. Reno.
	1883.	
W. Briggs,	G. Leighton,	N. O. Goldsmith
R. R. Peale,		W. T. Wilson.
	1884.	
A. P. Smith,	R. P. Linderman,	H. B. Douglass,
S. D. Morford,		J. A. Watson.
	1885.	
C. M. Tolman,	T. W. Birney,	C. F. Zimmele,
H. W. Rowley,	W. H. Cooke,	G. W. Snyder, Jr.
	1886.	
C. E. Clapp,	M. A. DeW. Howe, Jr.,	W. H. Dean,
J. K. Surls,	R. H. Davis,	W. P. Taylor,
S. C. Hazleton,		R. S. Breinig.
	<i>Artist.</i>	
	H. A. Luckenbach.	
	1885.	

ISSUED BY THE WHOLE UNIVERSITY.

H. B. Douglas, '84.	W. H. Cooke, '85.	M. A. DeW. Howe, Jr., '86.
G. H. Cobb, '86.	H. L. Bowman, '85.	H. S. Fisher, '87.
	G. W. Pettinos, '87.	

	<i>Artists.</i>	
H. W. Rowley, '85,	K. Frazier, '87, L. A. Round, '88.	G. L. Lara, '86.
	1887.	
G. T. Richards, C. F. Zimmele,	H. S. Fisher, W. A. McFarland, H. H. Stock.	F. S. Smith, L. B. Stillwell,
	<i>Artists.</i>	
K. Frazier,	J. A. Morrow, 1888.	H. A. J. Wilkens.
L. R. Zollinger, A. G. Rau,	C. N. Butler, H. S. Miner, W. H. Stokes.	E. H. Shipman, W. A. Stevenson,
	<i>Artists.</i>	
C. L. Addison,	W. M. Webb, 1889.	J. B. Glover.
W. D. Farwell, A. Johnston,	A. T. Throop, W. Butterworth,	C. H. Deans, C. Walker.
	<i>Artists.</i>	
H. M. Carson,	J. Lockett, L. A. Round. 1890.	W. E. Howe,
C. H. Miller, R. S. Mercur,	T. J. C. Bailey, Jr., W. C. Riddick,	W. V. Kulp, F. Clarke, Jr.
	<i>Artists.</i>	
F. K. Houston,	1891.	W. A. Stevenson.
H. T. Morris, G. S. Hayes, P. M. Paine,	F. C. Lauderburn, H. W. Myrick, J. Z. Miller, R. R. Hillman.	J. R. Barrios, E. H. Coxe, M. D. Sohon,

Burr Editors.

1881-1882.

MONTHLY.

	C. C. Hopkins, '82, <i>Editor-in-Chief.</i> N. G. Goldsmith, '83, <i>Business Manager.</i>	
J. D. Ruff, '82, S. D. Morford, '84.	H. B. Douglas, '84.	R. R. Peale, '83, A. P. Smith, '84.
	1882-1883.	
	N. O. Goldsmith, '83, <i>Managing Editor.</i> J. A. Watson, '84, <i>Business Manager.</i>	
F. H. Purnell, '83, H. A. Butler, '83.	A. P. Smith, '84, H. B. Douglas, '84, R. H. Davis, '86.	C. M. Tolman, '85, F. W. B. Pile, '85.
	1883-1884.	
	A. P. Smith, '84, <i>Managing Editor.</i> R. H. Wilbur, '85, <i>Business Manager.</i>	
H. B. Douglas, '84, R. H. Davis, '86, M. A. DeW. Howe, Jr., '86,	J. A. Watson, '84, C. O. Haines, '84.	W. H. Cooke, '85, I. A. Heikes, '85, Wm. Wirt Mills, '87.
	1884-1885.	
	W. H. Cooke, '85, <i>Managing Editor.</i> C. E. Clapp, '86, <i>Business Manager.</i>	
G. W. Snyder, Jr., '86,	R. H. Davis, '86, M. A. DeW. Howe, Jr., '86.	Wm. Wirt Mills, '87.

1885-1886.

M. A. DeW. Howe, Jr., '86, *Managing Editor*.Wm. Wirt Mills, '87, *Business Manager*.

K. Frazier, '87,

G. M. Richardson, '86.

R. McA. Loyd, Elec.

C. E. Clapp, '86,
W. H. Stokes, '88,

1886-1887.

F. S. Smith, '87, *Managing Editor*.C. P. Coleman, '86, *Business Manager*.

K. Frazier, '87,

H. M. Carson, '89,

W. H. Stokes, '88,

W. D. Farwell, '89.

W. E. Howe, '89.

1887-1888.

SEMI-MONTHLY.

W. H. Stokes, '88, *Managing Editor*.L. P. Gaston, '88, } *Business Managers*.

C. Walker, '89, }

W. A. Stevenson, '88,

C. H. Boynton, '89,

C. E. Coxé, '90,

A. M. Masser, '90,

H. S. Miner, '88,

W. M. Carson, '89,

J. W. Stone, Jr., '90,

T. C. J. Bailey, Jr., '90.

1888-1889.

W. D. Farwell, '89, *Managing Editor*.C. Walker, '89, *Business Manager*.

H. M. Carson, '89,

A. E. Phillips, '90,

G. E. Lefevre, '91,

C. H. Boynton, '89,

T. C. J. Bailey, Jr., '90,

J. S. Riegel, '90.

F. C. Lauderburn, '91.

1889-1890.

A. E. Phillips, '90, *Editor-in-Chief*.C. H. Miller, '91, } *Business Managers*.

E. Vander Horst, '91, }

W. Forstall, '91,

F. S. Camp, '92,

C. McK. Loeser, '91.

C. W. Meade, '92.

J. S. Riegel, '90,
E. J. Prindle, '90,

Editors of the Engineering Journal.

1885-1886

I. A. Heikes, '85,

H. G. Reist, '86,

B. A. Cunningham, '87.

A. S. Ross, '86, *Business Manager*.

1886-1887.

E. S. Stackhouse, B.M., '86,

B. A. Cunningham, '87,

L. R. Zollinger, '88.

C. C. Jones, '87, *Business Manager*.

1887-1888.

H. S. Jacoby, '77, *Corresponding Editor*.

J. B. Glover, '88,

L. R. Zollinger, '88, *Business Manager*.

A. T. Throop, '89,

1888-1889.

H. S. Jacoby, '77, *Editor-in-Chief*.

G. F. Duck, '83,

P. Atkinson, '89,

A. T. Throop, '89.

W. V. Kulp, '90.

C. H. Deans, '89, *Business Manager*.

1889-1890.

J. S. Riegel, '80, *Editor-in-Chief*.

H. S. Jacoby, '77,

L. P. Breckenridge, Ph.B.,

A. E. Phillips, '90.

Henry Kemmerling, '91.

C. E. Fink, '90, *Business Manager*.



SHELLENBERGER, '91: "I am perfectly pure."

SAWTELLE, '93: "Do they mark you for conduct here?"

JUNIOR (*during rush*): "Are you '93?"

FRESH.: "Oh no, sir, I'm a Freshman!"

LANGDON, '91: "Where is the plumb-bob that goes with this level?"

H. H. DAVIS, '92 (*writing*): "I most *respectively* petition," etc.

DR. RINGER (*to Soph.*): "You were right. Why do you correct to wrong?"

PROF. HARDING (*to '91 at lecture*): "The large number of absences obtained by this class is a bad thing well done."

RAFFERTY, J. P. (*at class supper*): "You all know *me*; *everybody* knows who *I* am; why I can whisk a lacrosse stick like a tooth-pick."

CHAPPIE MAURICE (*on being heavily downed at foot-ball*): "Dow you fellows quid beig so rough! If there's eddythig I detest it's beig in a *melée*."

DODGE, '92 (*translating*): "A lovely young lady with blue hair and eyes."

LABROT, '92: "Mr. Lambert, I don't see—etc. to ∞ ."

MR. LAMBERT: "Mr. Labrot, you'd better keep quiet and do a little *thinking*; you *talk* too much."

MANLEY, '92 (*couldn't see why he could not get his problem*): "If a train of cars weighing 60 tons travels at the rate of 40 miles per hour, how far will it move after being suddenly stopped?"

REESE, '89 (*wishing to introduce a gag in a song*): "Who can bray like an ass?"

GLEE CLUB (*simultaneously*): "Where's Pratt?"

BUCHER, '92 (*to Instructor in Quantitative*): "Please give me a sample of silver coin for analysis."

INSTRUCTOR: "All out; take an ordinary dime."

BUCHER has no dime so he analyses *two nickels*, and smilingly reports.

LOOS, '91 (*in Mineralogy*): "Mr. Richards, do they quarry soap-stone at Easton just to adulterate flour with?"

HUBBY, '92 (*to waiter at Founder's Day Ball*): "What is this?" W.: "Bouillon." H. (*after a pause*): "What did you say it was?" W. (*impatiently*): "Bouillon!!" *Lapse of a few seconds.* H.: "I didn't quite hear—" W. (*with emphasis*): "Soup! understand now?"

RICHARDS: "This mineral is not exactly symmetrical, having been *squeeze*."

MR. LAMBERT: "What is the locus of $x^2 + y^2 = 25$?"

McCLUNG, '92 (*misunderstanding the meaning of a friend at seat who is making a circle on his book cover*): "Zero, sir."

HARLEY, '90: "The ground is freezing and this thermometer is only down to 40°."

BRECKENRIDGE: "Let go of the bulb."

HOOVER, '90: "One bone was broken and the other fractured."

RENCH, '91: "Is the 'Little Gurley' compass any relation to the Transit of Venus?"

PROF. CHANDLER (*very hungry*): "Can I get anything to eat here?"

PROPRIETRESS OF THE TRAINING TABLE: "Are you one of them football men?"

SHELLENBERGER, '91 (*at plane-table, to rodman*): "Are you on the opposite side of the road?"

BEWILDERED RODMAN: "Which is the opposite side?"

PROF. FRAZIER: "Mr. Hayes, Euclase is a very rare mineral. Can you say what it is remarkable for?"

HAYES, '91: "Its rarity."

A.: "Wasn't your paper like his?"

SEMPER, '92: "No, his was just like mine."

MERKLE: "How would you conduct water across the road?"

BRADY, '91: "Several ways; one way is to let it run across himself."

BRAY, '93 (*watching Detwiler put the shot*): "Is that man training for base-ball?"

BEAUMONT, '91: "What is homogeneous motion?"

NEUMEYER, '90: "In New York State they hang prisoners by electricity."

DRAYTON, '91: "No, he's not from Venezuela; he's from the United States of Bolivia."

THROCKMORTON, '93: "I'm the papa of the Freshman Class."

POTTER, '93, wants to prove that the living force is equal to the vis à vis, plus C. (*Astonishment.*)

WOODCOCK, '92, is fond of securing catalogues of Female Seminaries. Having written to Maryland for one, the Principal telegraphed to the school agent at Easton: "See Mr. Woodcock at Bethlehem and try and get his daughters to come to L—— to school."

HOLCOMBE, '93 (*to Junior dressed for ball*): "Say, one of the buttons is coming off of your dress-coat."

SCHUTTE: "I'll acknowledge being a '93, but these blamed Freshmen have got to stop asking me where the lesson is."

GRAHAM, '93, with sublime freshness, puts in a slip at the Library for "Slippery Pete of Arkansas, or the Dead Bushwhacker of the West."

SALVATIONIST (*to Kramph on Train*): "Young man, the devil is stamped on your face. Why don't you become a Christian?"

KRAMPH: "What's a Christian?"

SALVATIONIST (*getting wrathful*): "You've not sense enough to understand."

EAVENSON, '91 (*declaiming*): "Women of all sexes."

MERKLE: "You set up this instrument and take a reading—that's back-sight. All the rest are fore-sights until the next back-sight."

A PROMINENT PROHIBITIONIST at Brown having written to Forstall for the names of two prominent temperance men at Lehigh, those of Bassell, '92, and Bridgers, '92, were returned to him.

JONES, '92: "Say, what's the literal translation of

βρεκεκεκεξ κῶαξ, κῶαξ

βρεκεκεκεξ κῶαξ, κῶαξ. etc.—

I can't make any sense out of it."

PROF. DOOLITTLE: "That'll do, Mr. McClung; there is no use of my trying to obtain information from a source where there is none."

SCHMITZ, '91: "Why, Professor, I thought I knew all about Crystallography there is to know."

HAZEL, '92: "This engine has two sources of heat, one for heat and the other for cold."

PROF. H. (*with his arm around L——*): "Freddy, I feel that there is a bond of union between us." (*Freddy afterward said he might just as well have hugged a lamp post.*)

WOODCOCK, '92 (*to Camp, in New York*): "We don't want any Welsh Rabbit. Game is too dear here."

QUIER, '91: "*Quant il avait cinq sous, il se faisait friser.*" "When he had five sous he made it fly." (Even Stilson laughed).

CRESSMAN, '93 (*in draughting room*): "Loan me your triangular square."

GRANT, '93: "Must we ink this tracing in lead pencil first?"

BRIGGS, '91 (*in steam engine*): "How do you find horizontal pressures on crank-head pins?"

DR. R-NG-R (*lecturing on German Lit.*): *The man lived all alone among the Alps of Switzerland.* "Now de man who already I have yet once mentioned to you, diz gentleman nevertheless especially had only lived wiz de Alps already in Switzerland."

FAIRCHILD, '91 (*discussing Electrical Capital Punishment*): "Convicts are not killed by execution in New York now."

BECK, '92 (*handing toll-man a pebble*): "One sir; change please."

TOLL MAN: "Is that the manners ye learn at the Packer Free School? Tief! Tief!"

FERRIDAY, '93, has a weakness for gagging Juniors. Come again, freshie.

USINA '91 (*looking at mail-box*): "What's Poppy Doo got the telephone for, anyway?"

SHELLENBERGER, '91: "Say, do you have such a scraper to sharpen a pencil with?"

HEINRICH (*in Soph. lecture*): "The line of no magnetic declination runs through Hudson Bay, Ohio, and south through Charleston."

SOPH.: "I thought it went through Eastern Pennsylvania."

A VOICE: "It goes through Allentown, soxy."

HEINRICH: "That seems to be a place of decided *attraction*, anyway."

REVOLUTIONS AND REVELATIONS IN THE SCIENCE OF BOILERS, as announced by the '91 E. E.'s: "The level of the water is determined by the water-level."

"Boilers have 80 flues, 60" in diameter and 18" long.

"Tubes are cleaned by means of a broom."

"Incrustation in fire-tubes is removed by a steel swab."

"When the water gets below the fusible plug it melts, and the water, dashing on the fire, *outens* it.

"The holes are *staggered*, by which is meant that after being fitted they are permanently expanded by conical-shaped instruments larger than the tube."

WARRINER (*giving signal*): "Brace up, Mercur!"

MERCUR, '90 (*misunderstanding, and wrathful*): "I'm doing the best I can."

KNAPP, '91: "*Si elle pleurait quelquefois, c'était à la dérobée.*" "If she cried at any time, it was at disrobing."

MR. RICHARDS (*in blow-piping*): "Mr. Loos, that mineral is either lead or antimony. If it is malleable it is lead."

LOOS (*striking it with hammer and breaking it in pieces*): "Oh, it's lead sure; see how malleable it is."

SHELLENBERGER, '91, makes a bet, loses, and declares it not *legal* (it being made on Sunday) to avoid paying it.

H. S. JACOBY: "The explanation is very easy when I give you the corrections *yet*."

BRUBAKER, '93 (*watching foot-ball*): "How much do the opponents get when one of our men is hurt?"

BAILEY, '90 (*to Government Examiner of Tests*): "How do you tell when the specimen breaks?"

GOVERNMENT EXAMINER: "By using your eyes, man!"

IN STONE CUTTING: "What do they call this instrument to get the angle of the faces of the stone, Mr. Vander Horst?"

VAN (*trifle mixed*): "I'm not sure, but I think it is a goniometer."

MR. MERKLE: "What kind of masonry dams have we?"

JOHNSON, (ex-'92): "Two kinds. Timber and stone."

BRUBAKER, '93: "I had my head examined by a chronographer last night."

WILLIAMS, '93: "You mean a craniometer."

BRUBAKER: "Oh yes, a chronometer."

USINA, '91: "To gauge a railroad do you measure from the middle of one track to the middle of the other?"

FRESHMAN (*at Klose's*): "Say, Billy, strike him for one of those *score-cards*."

SHOE-DEALER (*to '93 man*): "Do you want lace, button, or congress shoes?"

FRESHMAN: "I don't want any of those—I want a pair of *Walking-quicks*."

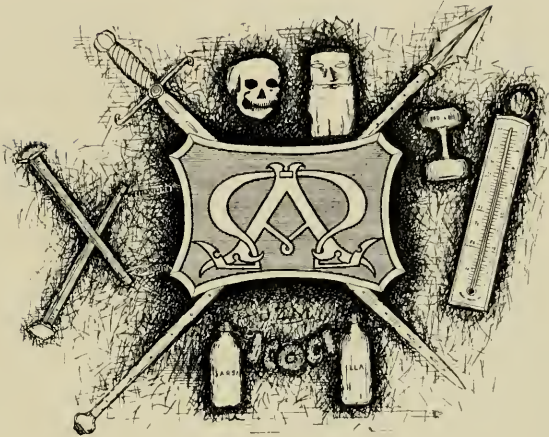
DASHIELL (*showing new bat to Congdon*): "Won't I just line 'em out with that!"

CONGDON (*greatly surprised*): "Are you the *batter*? I thought all along you were the *pitcher*!"

SMITH, '92 (*walking along L. V. R. R.*): "How far apart do they place mile-posts on this railroad, anyway?"

DOOLITTLE, JR. (*to Freshman Math. section*): "I can't explain that point just now, but I'll ask papa about it."





Alpha Chapter.

DEDICATO IN LEHIGHENSE, 1886.

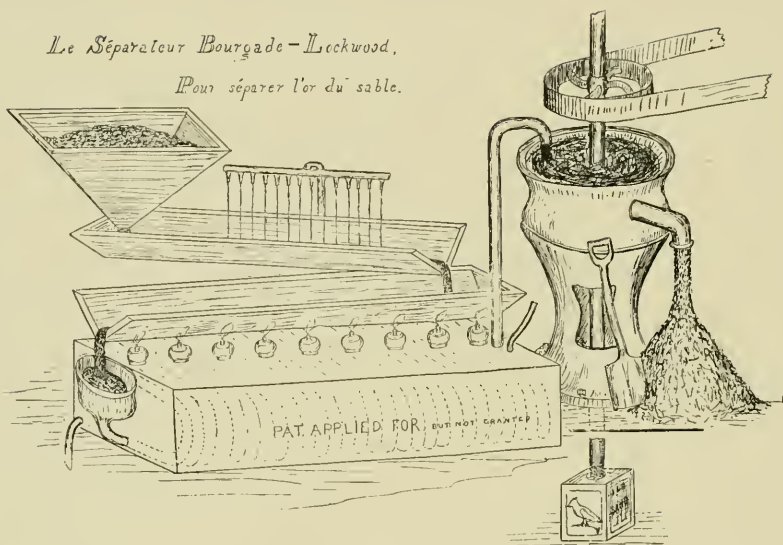
Initiates.

MDCCCXC.

THOMAS CHALKLEY JAMES BAILEY, JR.,
FREDERIC ELMER FISHER,
CLAUDE ALLEN PORTER TURNER.

MDCCCXCII.

ALFRED TENNYSON BROWN.
CLARENCE GALEN SMITH,
CHARLES BARTLES, JR.,



The distinguishing points in recommendation of this gold separator are its convenience of manipulation, economy of running, and simple construction.

Directions for Working.—Place sand containing gold in hopper. In first trough it is reduced to liquid by fine sprays of concentrated emulsion of alcohol and mercury issuing from jets. It is heated in second trough by alcohol lamps, which drive off *Hg*. (Wooden troughs are renewed when burned out.) The mass then passes through coils in cold bath, whence by gravity to separator proper, which makes 111,332.47 revolutions per second. (Tested accurately by M. Lockwood with Mr. Fl—r's lateral thrust-speed indicator, dynamometer attachment.) The sand is automatically run into one-pound boxes and used by birds, grocers, etc. The gold falls from spout upon floor, whence it is removed by hand.

In the first test of this separator M. Lockwood produced 132 gm. of gold from 130 gm. placed in the hopper.



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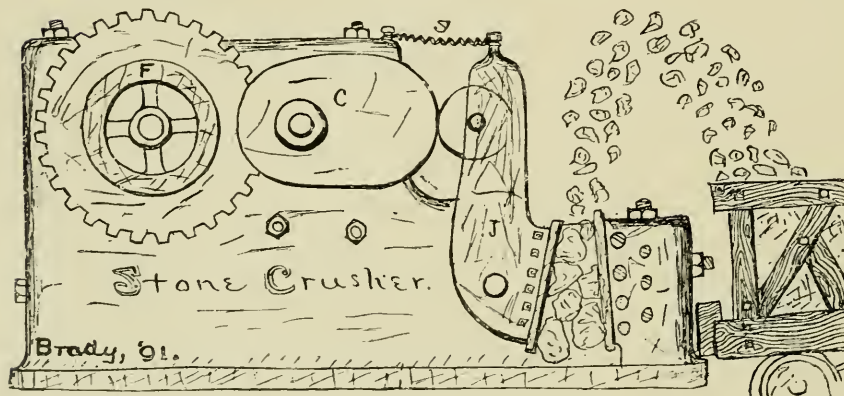
"TEXAS" BARRETT.

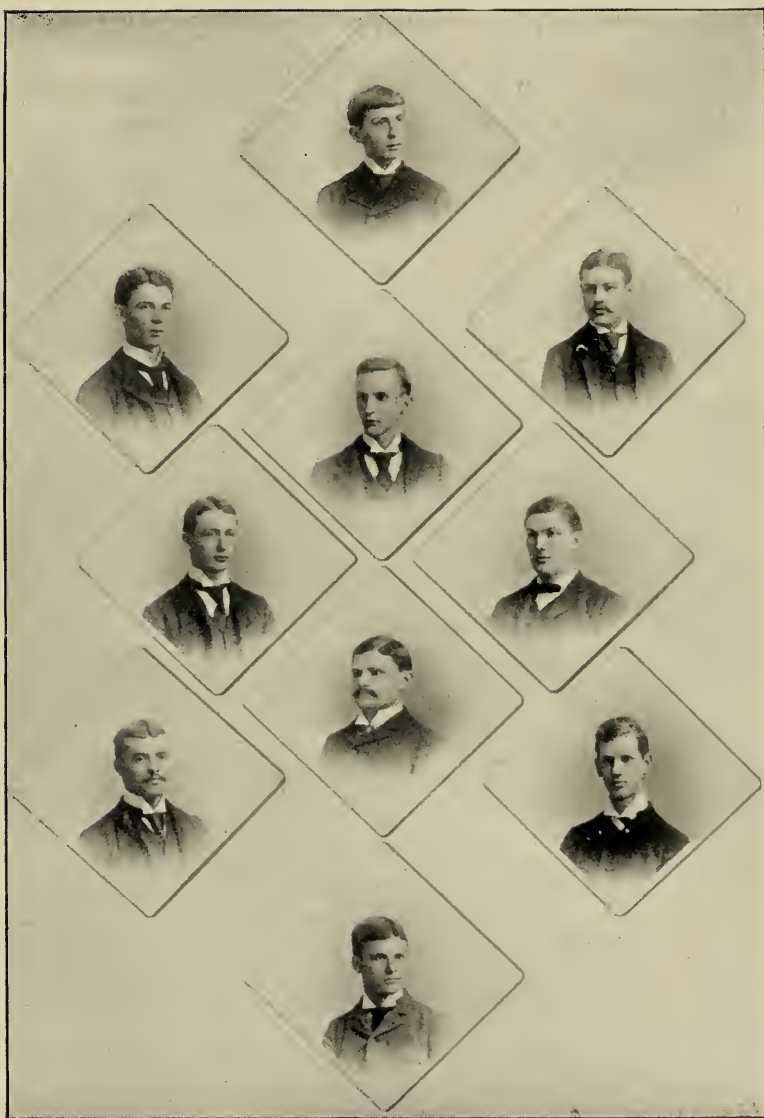
St. Dupe's Hospital.

Register of Cases.

NO.	NAME.	MALADY.	TREATMENT.	REMARKS.
26	Chappie Maurice.	Anglomania.	Foot-ball once a year.	Incurable.
27	Eric Doolittle.	Gymnasia.	Under consultation.	Given up as hopeless.
28	W. J. Lloyd.	Chapel absentia.	Nineteen applications.	Cured.
29	Birdie Juhler.	Kleptomania.	Solitary confinement.	Keep your desks locked.
30	G. E. Wendle.	Insomnia.	Five Chapels a week.	Effective.
31	W. D. Matheson.	Absentia.	Suspension.	No record left.
32	J. S. Griggs.	Socialysis.	A grin every 15 min.	
33	S. W. Labrot.	Amor.	Nisky.	None needed.
34	W. P. Cleveland.	Hirsuteness.	Welsh's Beard Elixir.	Successful.
35	A. E. Phillips.	Loquacity.	Public Opinion.	No effect.
36	Susie Rench.	Iracundia.	A key to Bulletin Board	See civil bulletin.
37	Susan Webb.	Effeminacy.	A night with the boys.	Not yet applied.
38	R. A. Downey.		Change of climate.	Sure and rapid cure.
39	Mike Johnson.	Rubosity.	Total abstinence.	Remedy impracticable.

F is fly-wheel geared into cam(C),
 Spring(S) draws jaw(J) back and crushes stone.
 Cam(C) now brings jaw back into original position.
 Stone flies in air and thus machine
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H. T. Morris.

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M. D. Sohon.

H. W. Myrick.
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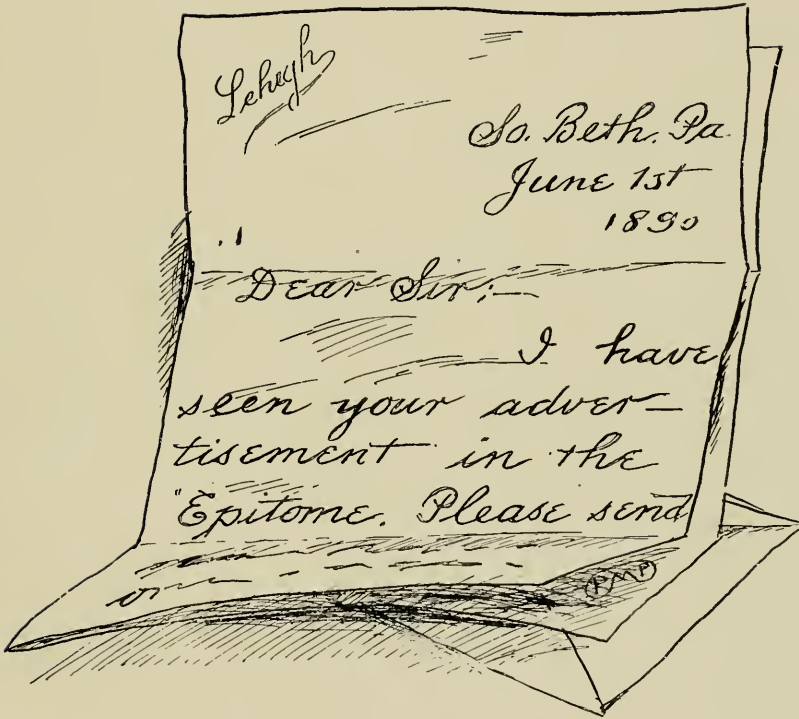
E. H. Coxé.

G. S. Hayes.

J. Z. Miller.



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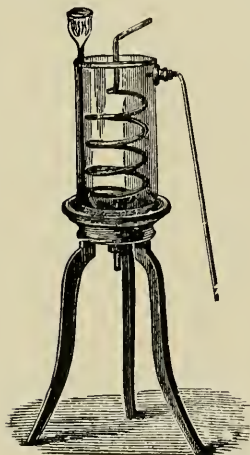
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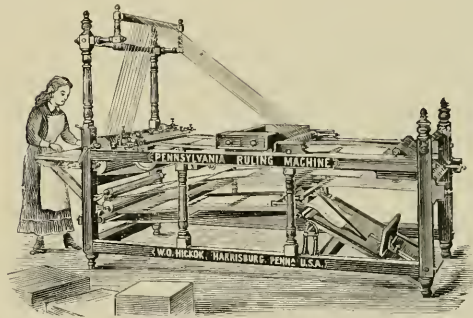
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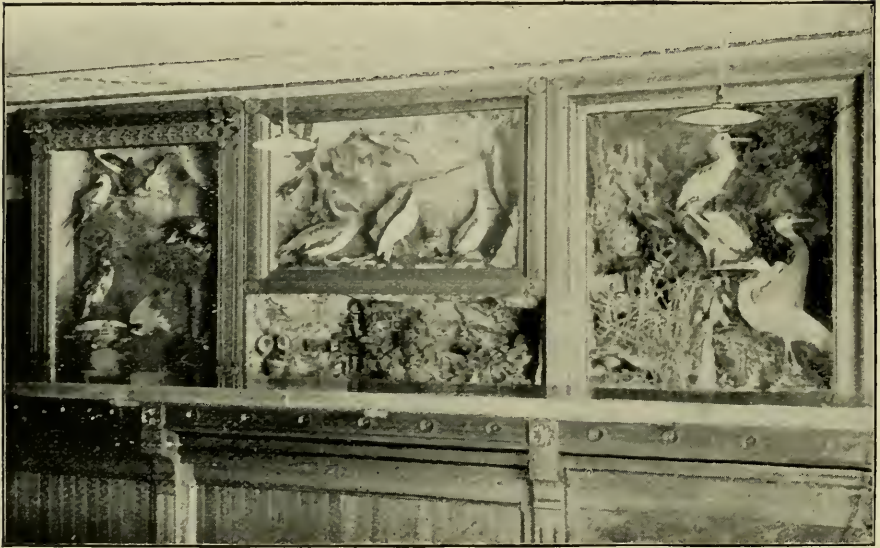
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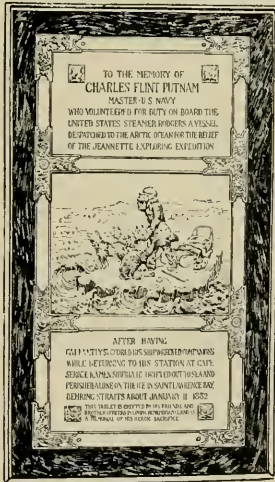
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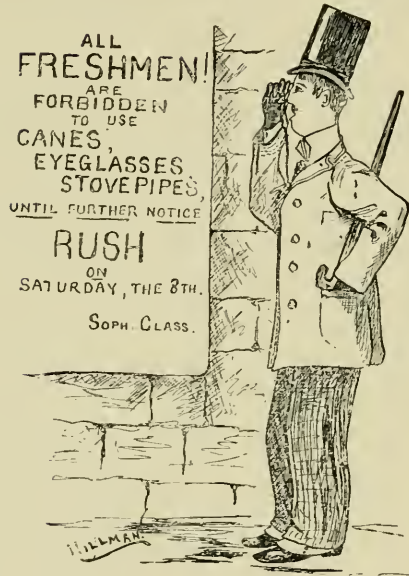
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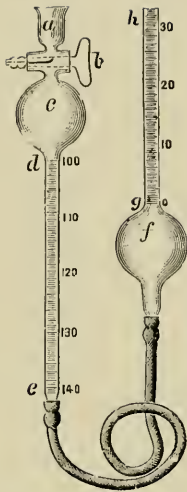
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